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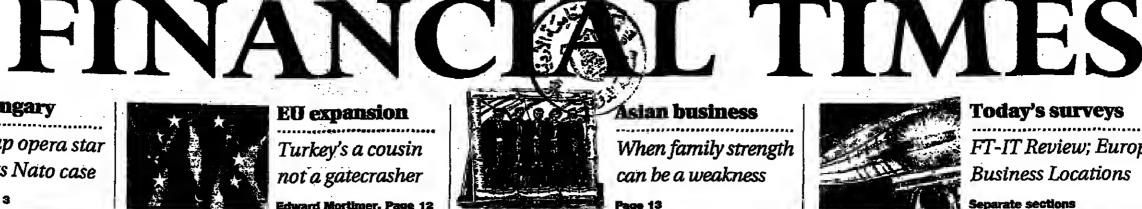
Soap opera star puts Nato case



**EU** expansion

Turkey's a cousin not a gatecrasher

Edward Mortimer, Page 12



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**Asian business** 

When family strength can be a weakness



**Today's surveys** 

FT-IT Review; European **Business Locations** 

Krupp and

bury old

hostilities

in merger

By Peter Norman in Bonn

Krupp Hoesch and Thyssen, the German engineering groups

locked in an acrimonious takeover battle this year, said yester-

kets closed, presages creating a

company with anoual sales of

about DM65bn (\$37bn) and about 190,000 employees. It would be

Germany's biggest engineering

group by far and, in terms of

sales, fifth or sixth ranking industrial group.

The news followed a meeting of

the groups' supervisory and man-

aging boards to consider reports

of 19 working groups drawo from

both companies and charged with exploring possible benefits and

The reports, finalised on Fri-

day, concluded that a merger

would give both companies the

chance to improve their position

in world markets and strengthen

their core activities in engineering, industrial services and steel.

They pinpointed "synergies of at

least DM-150m" a year that more

than justified the acceptance of

They decided the effects on

employment would be slight and

spread through the world. Any job losses would be offset "over a

foreseeable period" through new

employment opportunities aris-

ing from the increased dynamism

of the combined group. Shares of

Tbyssen and Krupp were

unspecified one-off costs.

drawbacks of a merger.

day they had agreed to merge. The surprise announcement sbortly after German stock mar-

Thyssen to

World Business Newspaper http://www.FT.com

'For all of us, there is a growing pressure to expand in emerging markets'

Part 11: Page 10

**WORLD NEWS** 

### **EU/US talks on** climate change emphasise gap in attitudes

A huge gap between European Union and US attitudes to the issue of climate change was underlined when EU officials put to their US counterparts the argument for tough action to limit emissions. Page 7

Russian privatisations hit The Russian government faces a dilemma in deciding how aggressively to press ahead with its privatisation programme in the face of a severe shortfall in state revenues and shaky financial markets. Page 2 kets. Page 2

Greece, Turkey to co-operate The Greek and Turkish prime ministers have pledged to work for better relations, while making clear there will be no quick solution to disputes, Page 3; The black sheep, Page 12

Islamists boycott Jordan poli Jordanians voted yesterday in tha first parliamentary election since the signing of a peace agreement with Israel in 1994. The poll was boycotted by the Islamic Action Front (IAF), the largest opposition party. Page 4

Algerian MPs' protest stopped Algeria's army-backed government broke up a demonstration by opposition members of parlia-ment protesting against alleged electoral fraud. Page 4

German arms sale trial Four German husinessmen alleged to have made illegal arm sales to Iraq went on trial in the third such case in recent weeks.

Brazil plans budget cuts The Brazilian government is preparing new cuts in next year's budget in an attempt to repair the damage to the credibility of lts economic policy caused by the turmoil in world financial markets. Page 7

trag to delay expulsions Iraq agreed to extend its deadline for the expulsion of American UN arms inspectors in response to a request by UN secretary-general Kofi Annan. Barlier report, Page 4

US pledge over Slovakia
The United States does not intend to isolate Slovakia, despite political problems which have excluded it from the first round of Nato expansion. Page 2

Blahops visit Brussels Nine Polish Roman Catholic bish-ops travelled to Brussels for a three-day visit to discuss the religious side of Poland's prospective integration in the EU. Page 2

South Korean presidential bid Rhee In-je, a former provincial governor, launched an independent bid in South Korea's presidential election which polls suggest he might win. Page 6

Germany backs solar energy The Bonn government announced a programme of public financial support aimed at turning Germany into a leading

producer of solar cells. Page 3 NZ prime minister faces test Jenny Shipley, due to take over as New Zealand's first woman prime minister, faces a formida ble task as she seeks to boost the popularity of the governing National Party. Page 6

Markets

MORTH SEA OR. (Argust) S19.17

### **BUSINESS NEWS**

### **Barclays fails** to find buyer for entire BZW equities arm

UK bank Barclays has failed to find a buyer willing to take over the entire equities and corporate advisory businesses of the BZW investment banking arm. Swiss-US investment bank Credit Suisse First Boston has reached a preliminary deal to buy just the UK and continental European equities businesses. Page 15; Lex, Page 14

Financial markets in Thailand soared as Chavalit Yongchaiyudh said his resignation as prime minister would be effective at midnight tomorrow. Page 14; Empires can strike back; Page 13; Currencies, Page 23; World Stocks, Page 34

The Star Alliance, led by United Airlines of the US and Germany's Lufthansa has been accused by three of the world's biggest buy-ers of corporate air travel of failing to deliver price benefits to passengers, Page 4

South Korean businessmen are in Hayana to look at Cuba's potential as a new market. despite South Korea being a close ally of the US. Cuba's archenemy. "Business is ousiness," said one delegate. Page 4 **Italy's** newly privatised stock

exchange moved to simplify regu-lations in a bid to halt the drift of medium-sized companies to New York and other overseas markets.

The US congress began to consider legislation which could end the yearly congressional bat-tle over China's trade status. Page 14

Actus, US life and health profits of \$59.1m for the third quarter, down sharply from \$136.9m in the same period last year. Page 16 Air Canada has chosen

Rolls-Royce engines to power its twin let Airbus A330-300s in an order worth up to \$450m to the UK manufacturer. Page 4

Borders, the second largest US book retailer; saw its shares tump 11 per cent after it announced a two-year agreement with Infoseek. Page 16

Car registrations in Japan tumbled 13 per cent in October, underlining continuing fragility in consumer confidence. Page 6

Japanese financial institutions rallied round with funds to compensate customers of Sanyo Securities, which has filed for bankruptcy protection. Page 19

Thailand's cabinet approved a long-delayed telecommunications master plan that paves tha way for gradual privatisation and lib-eralisation of the country's telecommunications.sector. Page 6

A Hong Kong listing is being sought next year by China Inter-national Power Holdings, a unit of China's Ministry of Power, according to bankers. Page 19

Trustor assets
We apologise for a currency conversion error in yesterday's editions which resulted in the assets alleged to have disappeared from Trustor being overstated in dol-

lar terms. Report, Page 15

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O THE FINANCIAL TIMES LIMITED 1997 No.33,440

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## Paris nominates own man as president ahead of Duisenberg

# French put central bank leadership

By Robert Graham In Paris, Gordon Cramb In Amsterdam and Andrew Fisher in Frankfust

France yesterday upset plans for the future governorship of the European Central Bank by proposing its own candidate, Jean-Claude Trichet, head of the Bank of France. The announcement casts into

doubt the German-brokered can-didature of Wim Duisenberg, the Dutch bead of the ECB's forerunner, the European Monetary It also triggers an open conflict

for the presidency of the bank. Also at issue is what kind of monetary policy will operate in the future euro currency zone. The French move stunned the Suropean Commission. Officials bad hoped that France would

refrain from any action that

could complicate an already dif-

ficult final run-up to Emu. The Dutch government said lt would contest the initiative. German bankers and politicians reacted with surprise and dismissed the idea that the move was part of a deal being arranged by the countries' governments.

The French government, in close co-ordination with President Jacques Chirac, has been nation. Mr Duisenberg's reputa-considering promoting a French tion is undisputed and by open-

candidate to counter Mr Duisen berg for at least two weeks, according to officials. The German government was

WEDNESDAY NOVEMBER 5 1997

told in advance of France's intentions and indicated it would not formally react until the French made the announcement. The Bundesbank bas made

clear its view that Mr Duisenberg should be the first president of the European Central Bank, but had no official comment on the French statement, The finance ministry also refused to com-The French move came on the

eve of an informal meeting in Paris between German Chancellor Helmut Kohl and President Chirac and premier Lionel Jos pin, the prime minister. The Dutch government said it

believed a "broad Europe-wide consensus" existed among member states that Mr Duisenberg should accede to the job from his current role. The Hague and the Dutch cen-tral bank, which Mr Dutsenberg

headed for more than 15 years before moving to Frankfurt this summer, both pronounced themselves "very surprised" by the French proposal. "We see no reason for the nomi-

that France had lost several battles over Emu, notably on the

process and credibility of Emu is

undermined," said the centre-left

The French decision has been

taken in full awareness of all the

diplomatic problems it will cre-

ate. "We wouldn't have done this

if we hadn't seriously believed a

Frenchman should be in the job,"

said one official close to the deci-

Dutch coalition.

ing a discussion at this time the site of the ECB, the establishment of the stability council on budgetary restraint and the name of the currency itself - to be called the euro instead of the ecu. So this move could be seen as an attempt by France to assert itself, even if Mr Trichet was not cho-Britain will be primarily responsible for settling the issue

when it takes over the rotating Man of many talents, Page 2

French premier Lionel Jospin yesterday: his government's plans for the ECB governorship stunned the European Commission

### sion. "We have never concealed EU presidency on January 1. our opposition to the candidature of Mr Dulsenberg," he said. European economists noted

Memories of 1992, Page 9 Editorial Comment, Page 13

suspended until further notice. However botb companies advanced sharply in the unoffi-cial "grey market". Thyssen, which ended official floor trading

in Frankfurt at DM411, up 0.50 pfennigs, was quoted as high as DM428. Krupp, which bad advanced strongly by DM23.80 to DM374 in official trading was later quoted unofficially between DM390 and DM400. A

merger vindicates the strategy of Gerbard Cromme, Krupp chief executive, who in March planned a hostile debt-financed bid for the larger Thyssen. The plan was aborted after protests from trade unions and politicians in Bonn and Düsseldorf, capital of North

Lex, Page 14

# Jospin told to get tough on strikers

By Robert Graham in Parts

France's neighbours demanded government in Paris take firmer roads. steps to end the truck drivers' strike that has disrupted trade, blocked motorways and rationed fuel in parts of France.

Governments and husinesses in Britain, Germany, the Netherlands and Spain criticised maction by the French government,

raised the possibility of legal measures unless France ensured yesterday that the Socialist-led free movement of goods on its

"If this strike continues, we will act against French interests. We will boycott French goods and stop them crossing the border," said Pedro Barato, president of Spain's largest farmers' association. Tony Blair, the UK prime min-

and the European Commission ister, urged his French counterpart, Lionel Jospin, to intervene and help British drivers and hanlage companies caught in the

> Mr Jospin's government's soft approach towards dis-mantling strikers' barricades on strategic roads produced a rebuke from Jacques Chirac, the Gaullist president, whose office issued a statement saying it was up to the government "to take

the free movement of traffic". The president's comment comcided with growing opposition criticism of the government's handling of the dispute, which bas seen barricades set up in

more than 140 places. Jean-Claude Gayssot, the

Continued oo Page 14 Balancing act, Page 2 Observer, Page 13

# the necessary measures to assure

Continued on Page 14 Lure of wedlock, Page 17

### Yahoo Japan IPO soars as internet fever strikes

By Michiyo Nakamoto in Tokyo

Internet fever hit the Japanese stock market yesterday, as the shares of Yahoo Japan, an inforoffering price of Y700,000 (\$5,820) to Y2m on their first day of overthe counter trading.

The closing price values Yahoo than two years ago, at 192 times expected earnings in its current year to March 31 1998.

Analysts said that in addition to enthusiasm about the internet and Yahoo Japan's strong brand image, the sharp rise in the share price was probably due in part to the small number of shares made

available to the public. Only 975 shares, 3 per cent of those issued, were sold to the public, and only 318 were traded yesterday. The feverish reception is remi-

mation search service company, nisceot of that which greeted the soared from an initial public stock market launch of Yahoo Japan's US parent, Yahoo!, in April 1996. Priced at \$13, Yahoo! shares opened at \$24.50 and shot up to \$42.50 later in the day, giv-Japan, which was founded less ing the two-year-old company, which had yet to turn a profit, a market capitalisation of \$1.1bn. Yahoo Japan is a joint venture

between Yahoo! in the US, which bas 37 per cent of the shares, and Softbank, the Japanese PC software distribution and internet Continued on Page 14

COMMENT & ANALYSIS

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Lex, Page 14 London's opera house pobegva Editorial, Page 13 Canada's greenhouse cas policy American News, Page 7



### FINANCE

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• Sanyo falls to find a friend • Emap's European ambitions UK Company News, Page 21

# could benefit Singapore: Page 34

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UBS Private Banking is a division of Umon Bank of Switzerland, which is regulated in the UK by IMRO. www ubs.com By David Owen in Paris

Jean-Clande Tricbet may never become president of the future European Central Freoch government - but bankers and economists say that would be no reflection on bis talents.

Mr Trichet, 54, took over as governor of the Bank of France as it secured independence in monetary matters in 1993. He has since presided over a period of unprecedently low inflation and rising international confidence in the French franc. One memorable sign of this came in May 1996, when long-term French loterest rates sank below

second time in modern bond



Trichet: presided over a period of low inflation

move had as mncb to do with German weakness as with French strength. Bnt the turnaround proved reasonably sustained, with German honds closing the "yield gap" only recently.

Mr Trichet'a growing international reputation has not exempted him from the sort of regular domestic criticism over interest rate levels that is an occupational hazard for central bankers. This has continued despite

the French economy's recent opswing. Indeed, there are signs that the arrival of a leftwing majority in parliament may cause the criticisms to intensify.

Last month, for example, the parliamentary finance commission held an unusual meeting with the Bank of France's monetary council, which is headed by Mr Trichet, and asked for an explanation of a recent interest rate rise. The meeting initially took the form of a snmmoos after the bank raised its intervention rate hy 20 basis points in line with the German Bundesbank. The bank only agreed when the summons was toned down to an "invitatioo" to appear before the commission.

Born in Lyons, Mr Trichet was chief of staff to Edouard Balladur, former prime minister, between 1986 and 1987, while Mr Balladur was economy, finance and privatisation minister. Mr Trichet then became director of tha French treasury, considered the most prestigious administrative position in government, where be remained until 1993 in splte of the returo to power of the Socialists. He was also president of the Paris Clnb, the international creditors' organisation, between 1985

Imbued with the central banker's gift for discretion. he also has an eotertainiogly dry, almost mischievons, sense of bumonr which occasionally surfaces in private conversation.

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JOREOPARG D'The Fmancial Times Limited 1997. Editor: Richard Lambert, do The Financial Times Limited, Number One Southwark Bridge, Loudon SEi 9HL.

# A calculated gamble for France

nomination Jean-Claude Trichet as a candidate to be the first bead of the European Central Bank is a calculated gamble which has the fingerprints of Jacques Chirac. France's Gaullist president,

Mr Chirac, who is due to bold talks in Paris today with Helmut Kohl, Germany's chancellor, has sent Bank - the wish of the a firm signal that the French are determined to stop European economic and monepurely on German terms.

French officials have persistently spread rumours abont an informal understanding with Germany over rac's gamble looks cute. He the ECB. In this scheme, has put forward a French-

By Robert Graham in Paris

The French truck drivers'

strike is forcing the government of Lionel Jospin, the

prime minister, to steer

through a minefield of con-

The Socialist-led adminis-

tration has to satisfy its own

supporters, not least the

poorly paid truckers work-

ing long hours who are pro-

testing against their condi-

tions of employment. But

equally it cannot alienate

further the business commu-

month to introduce a 35-hour

working week by 2000. On top of this, Mr Jospin

must convince both the

French public and France's

European trading partners

end to a strike which, in

only two days, has started to

cause serious disruption to

the movement of goods by

It will require considerable

skill - and luck - to emerge

from this crisis balancing all

Given that the truckars

these elements.

frontation.

flicting interests.

A balancing

act for Jospin

over truckers

nity, already disturbed by rise, may yet he the basis of

Mr Jospin's decision last a final accord. Nevertheless,

that he can achieve an early picket outside Paris, demon-

Boun had supposedly guar- man to take over one of the board of the ECB, and, indi- Mr Trichet, in his capacity anteed that the ECB's first most prestigious internapresident would be French, tional financial jobs in the in return for French approval for the bank to be located in Frankfurt.

German officials bave repeatedly denied knowledge of such an agreement but have signalled firm support for Wim Duisenberg, the Dutch president of the European Monetary Institute, the forerunner of the ECB. Mr Chirac was said to

have been incensed at the manner in which Mr Duisenberg was anointed last year tary union being settled as the favourite for the ECB ioh, after the early retirement of Alexandre Lamfalussy as EMI president. in domestic terms, Mr Chi-

communist transport minis-

ter, did not formally enter

Once the minister was

involved, he found himself

presiding over an accord last

Saturday which was boycot-

ted by the main federation of

hauliers representing the

large trucking companies,

and which was then uncere-

moniously rejected by rank-

This accord, involving an

immediate 5 per cent pay

it failed to head off indus-

trial action strangling the

principal arteries of the

visited a late-night truckers'

strating his sympathy with

their protest and underlining

the government's dilemma.

During its five months in

office, the government has

carefully honoured its elec-

tion pledges and courted its

Mr Gsyssot on Monday

and-file truckers in different

the picture until last Thurs-

world, and has forced the Socialist-led government in Paris to fall into line.

More cautious members of Lionel Jospin's government might have preferred to have avoided another power-play with Bonn after the less than successful campaign German-inspired stability pact on budgetary discipline for countries adopting the

Above all, the nomination of Mr Trichet is a bargaining chip in the next round of talks on the single currency. These cover the selection of countries which meet the entry criteria for Emu, the

rectly, interest rate policy as governor of the Bank of for euro-bloc members. The common factor in

French calculations is Italy. France wants the Italians inside Emu hecause it is worried about the competitive threat of a weak lira outside the single currency 20ne. Italian (and Spanish) membership is also viewed last June to dilute the as a geopolitical counterweight to Germany.

But if Italy is a founder member of Emp. German officials, as well as the Bundesbank, have hinted the price would be higher interest rates to reflect the risk premium ahead of the euro's launch on January 1, 1999. France agrees on the need

for a convergence of interest

France, has warned privately against higher rates, arguing it could stymie the nation's economic recovery. In this sense, his candidacy is a foretaste of future

battles over monetary policy

in the euro zone.

Finally, the Trichet nomination marks a second shot in the battle over the composition of the ECB board. Last week, the German government signalled that it was ready to argue in favour of keeping one of the six executive seats open for Britain. The French move looks like a last throw of the dice to ensure that Paris wins the vice-presidency, if not the

# Dini attacks pension accord

greece. Ti

jugoslav di

Germany b

Lamberto Dini, Italy's foreign minister, has launched an unexpected attack on this week's pensions reform ment between government and trade unions. claiming it makes no structural reductions in spending and unfairly penalises the middle class. As Romano Prodi's government prepares to table its final pension proposals in parliament today. Mr Dini, who implemented the last set-piece reform of pensions in 1995, claimed the negotiations had produced an unfair and unbalanced

Mr Dini said the government's final proposals would penalise Italy's self-employed population, forcing them to make higher pensions contributions and restricting index linked rises for people getting larger payouts in

Mr Dini's comments were yesterday viewed in some political circles as subtle electioneering on behalf of his small centrist party, Italian Renewal, ahead of important mayoral elections due to be held later this month.

The comments added to a growing impression that the deal agreed after talks set up by Mr Prodi had failed to create a sustainable reform of huge pensions liabilities, which are currently around 14 per cent of gross domestic

### ■ HAMBURG ALLIANCE

### SPD, Greens agree terms

The Social Democrats (SPD) and members of the radical Green party have agreed to form an alliance to govern the city state of Hamburg, after the left emerged weakened from municipal elections in September.

The agreement ended six weeks of negotiations on n new administration for Hamburg, where the Christian Democratic Union (CDU) of Chancellor Helmut Kohl falled to win but did well in elections on September 21. Hamburg has traditionally been a fief of the SPD. The CDU had proposed forming an alliance with the SPD but the Social Democrats, who will be fighting Mr

Kohl in general elections in September, refused. The SPD party has now formed anti-CDU alliances with the Greens in a total of five of Germany's 16 states. in Hamburg, the Greens will run three ministries science and higher education, environment and city,

parliamentary relations and European policy. The agreement must be signed by the two sides and then approved by the Greens on Sunday and by the SPD on Monday.

AFP. Hamburg

### ARMS TO IRAQ

### German businessmen on trial

Four German husinessmen alleged to have made illegal arm sales to Iraq went on trial yesterday in the third such

Four businessmen from the Havert company and a subsidiary went on trial in the western German city of Darmstadt, charged with supplying equipment worth DM8.5m (\$4.8m) for making ramps to launch Scud

Three directors of the company and a colleague are occused of illegally exporting the products from 1988 to 990. They are also charged with fraud to obtain state export credit guarantees worth DM715,000.

On Monday, three Germans were each sentenced to two years in prison in the west German city of Mannheim for illegally exporting to Iraq machines used for making missile parts. AFP, Darmstadt, Germany

### NATO EXPANSION

### US pledge on Bratislava

The US does not intend to isolate Slovakia, despite political problems which have excluded it from the first round of Nato expansion, Washington's ambassador said in a newspaper interview.

"So far, we have not shut any doors. We have just said that the politics and the laws adopted in Bratislava excluded this country from the first group of the Nato membership candidates." Ralph Johnson said in yesterday's Pravda. "The same politics and legislation are evidently endangering the opportunities of Slovakia to join the European Union." Mr Johnson sald some US aid programmes for Slovakia

would continue despite its failure to be invited to join Nato. He said the value of US military assistance and co-operation with Slovakia had risen to \$18m from \$1m in

"However the enlargement of Nato turns out, we expect that this important aspect of the relations between the US and Slovakia will gain strength," he added.

### ■ HUMAN RIGHTS

### Turkish policemen jailed

Two Turkish policemen were yesterday sentenced to five and a half years in jail for torturing a man who later fell to his death from a window of an Istanbul police station. Anatolian news agency said the chairman of the Istanbul court concluded that the two policemen, Seydi Yapici and Recep Ucar, had used "cruel, inhuman and discreditable actions" after arresting Ali Riza Aydogan in February 1991.

The court said their behaviour amounted to torture and sentenced the policemen to five and a half years imprisonment. Another four policemen in the case had similar charges against them dismissed for lack of evidence, the agency said.

Anatolian said Aydogan had been arrested for looking suspictous and "committed suicide" by throwing himself out a third floor toilet window after being held for three days in the police station in Beyoglu district in central

### INCHOLAS II

### Tsar's bones to be moved

Boris Yeltsin, the Russian president, yesterday ordered tha transfer of the bones of the country's last tsar, Nicholas II, from the Urals city of Yekaterinburg to Moscow for final identification, the Kremlin said. A Kremlin statement said the remains of the royal

family, executed in 1918, would return to Yekaterinburg after experts came to their conclusions. It said Mr Yeltsin would make a final decision on the time and venue of

### POLAND AND EU

### **Bishops visit Brussels**

Nine Polish Roman Catholic bishops yesterday travelled to Brussels for a three-day visit to discuss the religious side of Poland's prospective integration in the European Union. The nine bishops were due to meet the European

parliament chairman and the European Union foreign relations commissioner. They were also scheduled to discuss issues such as agriculture and the media. The church in the predominantly Catholic country has only recently come out openly in support of Poland's entry into the union.

EU negotiations with Poland, four other east European countries and Cyprus are to begin early next year.



British war graves at Bayeux, Normandy. Inset: Mary McAleese, president-elect of the Irish Republic. There is controversy over whether Mrs McAleese should wear a commemorative

# McAleese faces first test...over poppies

By John Murray Brown

cidentally the day of her own inauguration.

Socialist and Communist supporters. How then can it coax a and the main haulage better deal from trucking groups were well prepared companies which already for the nationwide blockades fear French haulage costs world wars, Mrs McAleese, a which began on Sunday, the government appears to have underestimated the willing-begins next year?

will be uncompetitively high gelfast Catholic and the first UK citizen to become Irish head of state, said it was "an

ness of both sides for a con-Mr Jospin's decision to cut the working week provoked The government held back the resignation of Jean Ganfrom trying to encourage a dois, head of the Patronat deal until the last minute, employers' federation, and paign, hinted she was arguing that the dispute was confirmed it in its view the unlikely to wear a poppy, attended by Tom Hartley, favour of self-government Jean-Claude Gayssot, the towards labour.

Mary McAleese, the Irish president-elect, is facing her first controversy - over whether or not to mark next Tuesday's Remembrance Day commemorations, coin-

Asked whether she might wear a poppy in honour of the thousands of Irishmen who died fighting for the British Army in the two

interesting idea". manager of her election cam- public subscription. government was hlased arguing this would put prested the chairman of Sinn Fein within the UK int towards labour.

Easter Lily, which symbolises those who died in the 1916 rebellion against the British. By tradition the Irish shamrock is the only emblem worn by Irish presidents.

Irish presidents attended the Cenotanh service in London from independence in the 1920s until Eamon de Valera forbade lt in 1934. With the Northern Ireland Troubles, those attitudas

It was only in 1995 that John Bruton became the eager to volunteer to serve first Irish prime minister to in the first war as Protes-UK citizen to become Irish attend the Remembrance tants - to encourage the pol-head of state, said it was "an Day service at Dublin's liticians in Westminster to Islandbridge, a memorial Noel Dempsey, Fianna Fail designed by Edwin Lutyens, Irish self-rule or Home Rule.

environment minister and the architect, and paid for hy

That event was also overwhelming majority in

Queen's University in Belfast, said it was often forgotten that Catholics were as implement the promised

The Easter Rising, however, turned what was an within the UK into a major-

tion because of the lack of

Mr Flynn wants EU-wide union and employers' organ-

proper sanctions to enforce

isations to reach a collective

accord outside the normal

Alfa Group seems certain to

So far this year, the Rus-

win control of the Tyumen

bles, British servicemen

were considered "legitimate

targets" for the IRA. Sinn

The latest controversy has

been seized on as a test of

Mrs McAleese's claims to be

a bridge builder - to recon-

cile Irish nationalists with

the Protestants, who want to

Jane Leonard, historian at

remain part of the UK.

Fein's military arm.

# Consult workers or face sanctions' call

a private sector affair.

Possible sanctions against affecting the future of workers without consulting them in advance will be suggested today by the European Com-

rendering legally nuli and French politicians and by void the effects of any decisions taken without follow-

They would be designed to consultation of workers at up EU-wide worker consulcompanies which close fac- north of Brussels, where it was closing an assembly plant with the loss of the jobs of 3,100 workers. The handling of the closure was Sanctions could involve condemned by Belgian and

prevent a repeat of cases national level throughout such as that of Vilvoorde, the European Union. tories or take decisions French car maker Renault lishing a consultation paper announced without warning on the issue today. It sug-tect workers in companies

against companies should be "effective and dissussive".

Council directive - adopted under the Social Chapter of the EU's 1992 Maastricht The sanctions idea is part Treaty - already requires

tation bodies. But the Commission said The Commission is pub- RII states' national laws often do not adequately pro-

gests that the sanctions not covered by the works council directive. Two EU states, the UK and The Enropean Works Ireland, have no laws recog-bave done on part-time Council directive - adopted nising the fundamental work and parental leave.

right of workers to be consulted.

Where rights do exist, so-called Agreement on

EU process, as they already Such collective accords were introduced hy the

sla's two biggest energy

companies, announced this

raise more than \$1.5bn. pany, two middle-ranking oil

Lukoil and Gazprom, Rus- companies, although the

week they intended to Oil Company, the smallest of launch a joint bld. Other the oil companies to be put

powerful financial and up for sale, another medium-

Yukos, have expressed an sian government has interest Also, at least two exceeded its target for priva-

industrial groups, soch as sized oil company.

Onsximbank. Sibnsft and So far this year,

# ing standard consultation of a plan to introduce minimultinational companies Padraig Flynn, social affairs Social Policy, a protocol to procedures. Social Policy, a protocol to mum standards on proper above a certain size to set commissioner, said they are

# Moscow faces dilemma on sell-offs

The Russian government faces a tricky dllemma in deciding bow aggressively to press ahead with its privatisation programme in the face of a severe shortfall in state revenues and shaky financial markets.

The instability which rocked bourses last week is still ruffling Russian markets and has led to a sharp drop in share prices and a rise in longer-term bond yields. Investor confidence was further knocked by last week's decision by the International Monetary Fund to delay disbursement of a \$700m tranche of its \$10bn loan because of poor rates of tax collection.

The Russian government is planning to sell sizeable stakes in four oil companies over the next few months. aiming to raise more than \$4bn. But some private secphone company, and the Red

forthcoming debt issues willing to buy these assets nies have retained the interbecause of the instability in will not be so numerous as the world financial markets. they were before," said Bri. Analysts predict a fight for "The Russian government gitte Granville, Russia econwants to sell as much as omist at J. P. Morgan, the US they can for revenue pur- investment bank.



tor borrowers, including Ros-telekom, the Moscow tele-are being hit by adverse economic conditions

October confectionery plant, poses. But unfortunately for However, the sales of the have recently postponed them the people who are most attractive state compacontrol of the government's 63 per cent stake in the Ros- for shareholdings in Slavneft

est of big private companies. sive reasons." he said.

neft oil group, which could and the Eastern Oil Com-

transparent to date. Par Mellstrom, head of still attract a lot of interest from hig industrial concerns. aign portfolio investors "Bad market conditions will appear wary of the Russian lower the price slightly but equity and Treasury-bill the strategic needs of all (GKO) markets. A sharp these big groups should lead drop in yields on short-dated to a high price. The com- government paper and a conpany which buys Rosneft sequent rise at the longer will immediately improve end of the market have been their position in the industry cited by some analysts as a

It is more difficult to predict what the demand will be debt market.

western oil giants, Royal tisation revenues, largely Dutch/Sbsll and BP, are thanks to the sale of a 25 per helieved to be considering cent stake in Svyazinvest, participation in the Rosneft the national telecommunicaauction, which the govern- tions company, for \$1.9bn. The state property comment vows will be the most mittee announced yesterday that in the first 10 months of research at Brunswick, the 1997 it had raised Moscow-based stockbrokers, Rbs11,470bn from sales of said Rosneft had great stra- state assets - 75 per cent tegic importance and should more than budgeted

But for the moment, forfor both offansive and defen- sign that investors are looking to reduce their exposure to the Russian domestic

John Thornhill

**W**. 7 Book on - ----Profession to the same of

-والمراجع والمتحاول المتحاولة ಕ್ಷೇಕ್ ಸರ್ವ 🗼 🥫 Park British Co. Co. we have sometimes and a Trees and the same Subject to the same <del>Territoria</del> de Carteria de la constanta de la والمناج المنتج المراق

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Bris A. . . . Greens agree terms **33**5, 37, 77, 7 **≛ar**⊷ werter . THE PARK OF THE grafia are seen

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A CONTRACTOR THE TREE PARTY. sedge on Bratislat.

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By Kerin Hope in Agia Pelagia, Crete Costas Simitis and Mesut Yilmaz, the Greek and Turkish prime ministers, hava pledged to work for better relations, while making clear there will be no quick solntion to disputes over the lmia islets and the Aegean continental shelf. Mr Simitis and Mr Yilmaz

underlined the need for regular contacts after meeting for the first time on the sidelines of a Balkan summit on Crete this week. Their talks

governing Socialist party, said: "It is important for revived last July's US-broleaders of countries with problems to meet, to get their view across to each other. If we do not do this, Greece will be isolated and pushed into a corner." Mr Yilmaz called for more

Turkish military aircraft and a brief Greek-Turkish rapa near-collision of two war- prochement in 1988 but ships, which raised fears of a never implemented. "It is of possible clash in the Aegean. great importance that we yesterday from a hardline tensions and action that anti-Turkish faction in his might bring us to a conflict." The falks effectively

Greece, Turkey to work together

kered agreement in Madrid between Mr Simitis and President Suleyman Demirel of Turkey, in which the two sides agreed to renounce force in hilateral relations. They also improved the out-Crete this week. Their talks high-level meetings and the look for EU accession negoti-followed incidents last revival of confidence-build- ations for Cyprus that start to risk a clash with the influ-

month between Greek and ing measures agreed during next April But no progress ential Turkish military was made on the long-running Aegean dispute, which Greece says must be referred to international arbitration. Mr Simitis, under attack meticulously refrain from Mr Yilmaz repeated Turkey's demand for talks on all the Greek-Turkish disputes. including on the Aegean.

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**NEWS:** EUROPE

Both leaders appear unwilling to face the political costs of narrowing Greek-Turkish differences in the Aegean. While Mr Simitis is criticised by Socialist hardliners for softening government policy towards Tur-

establishment. A further obstacle to Greek-Turkish co-operation emerged when Turkey rejected a Greek proposal to set up a permanent body in Athens to organise future Balkan meetings.

Greece has taken the lead in promoting relations between Balkan countries. The gathering on Crete also brought together Bulgaria. Romania and Albania to discuss economic co-operation and efforts against drugsmuggling and illegal immi-

the Hungarian army

ter in Hungary's most popu-

lar soap opera, "Familia kft",

He became one of the soap

opera family's neighbours in the summer, after the

Defence Ministry paid Ft 7m

(\$36,000) to have a pro-Nato

character inserted into the



gration.

Turkey and the EU, Page 12 Costas Simitis, Greek prime minister, meets his Turkish counterpart, Mesut Yilmaz

# Yugoslav dinar down by 10% | Hungarian 'soap' tackles Nato

By Guy Dinmore in Belgrade

The Yugoslay dinar has plummeted on the open market this week following a sharp rise in the money sup-ply that threatens to derail the Socialist government's economic stabilisation pro-

While the non-convertible dinar remains officially pegged at 3.3 to the German mark, illegal street traders vesterday were offering around 4.4 dinars, a fall of more than 10 per cent from last week and almost a third since August. More falls are

Aleksandra Posarac, an rol prices, from 3.7 dinars a

By Peter Norman in Bonn

The Bonn government and

the states of Bavaria and

North Rhine-Westphalia yes-

terday announced a pro-

gramme of public financial

support aimed at turning Germany into a leading pro-

Backing will be provided

Pilkington Solar Interna-

tional of Cologne and Deut-

produce cells with an annual

electricity generating capac-

for two solar cell factories.

ducer of solar cells.

ance, said the government was pumping unbacked dinars into the economy to woo voters ahead of a fresh round of Serbian presidential elections next month. Money in circulation last month was estimated at 10bn dinars (\$1.69bn), almost double the amount six months ago. "It seems the government is really in trou-

ble. They are running out of funds," Mrs Posarac said. "Elections are coming and they need money to pay off pensioners." The dinar has also been weakened by a sharp rise this week in peteconomist and vice-president litre to 4.9 dinars, after the majority in the Serbian par- cal gains.

Gelsenkirchen in the Ruhr

region of North Rhine-

Angewandte Solarenergie

(ASE), part of the RWE

group, will spend DM20m

expanding annual produc-

tion at its plant in Alzenau.

Bavaria, from 1MW to 13MW

of cells by 1999. It plans to

increase ontput to 25MW

Jürgen Rütigers, the Bonn

research and technology

the projects with DM12m

over the next three years.

ity of 25MW from 1999 at The North Rhine-Westphalia erating capacity, global

later if demand allows.

Westphalia,

sche Shell will invest about minister, said the federal

DM30m (\$17m) in a plant to government would support

of the opposition Civic Allion fuel to help fund its widening budget deficit. Because of a lack of trans-

parency, it is not clear how Yugoslavia is funding a balance of payments deficit forecast to reach \$2bn this year. But diplomats said the government had so far managed to stave off total economic collapse, thanks to the hidden proceeds from smuggling, arms sales and dwindling reserves held in secret accounts abroad The ruling Socialist coalition of Slobodan Milosevic, the president, has suffered

government will provide

DM10m for the Gelsenkir-

chen plant, while Bavaria

will support the initial

expansion of the Alzenan

Mr Ruttgers said Ger-

many's aim was to challenge

the US and Japan, the two

leading solar cell producers

with sales last year of

39.85MW and 21.2MW respec-

tively. The planned expan-

sion would boost German

solar cell production to

about a third of current

Measured in terms of gen-

world demand.

plant with up to DM6m.

the presidency to Vojislav called for December 7.

serious setbacks over the past two months, losing its

to persuade the country to join the Atlantic military alliance Seseli, the extreme nationalist leader of the Serbian Radical party. The presidential vota was invalidated by a is one of the most turnout that fell short of the legally required 50 per cent. successful advocates of his and a fresh election has been country joining the Nato military alliance - despite the fact he does not exist. Col Korda is a new charac-

With access to international financial institutions blocked by US sanctions, the main achievement of the Socialists has been to stabilise the economy through a tight monetary policy. But economists said inflation would return as the government resorted to printing dinars for short-term politi-

30 per cent to 120MW this

by at least 15 per cent a year

over the long term. German

industry believes there could

Solar energy has suffered

Gelsenkirchen and Alzenau

would use highly integrated

would push down costs.

nations.

ar and continue growing

The colonel has spearheaded an unprecedented campaign to win the coun-Germany backs solar energy try's opinion round to Nato membership in advance of a referendum scheduled for November 16. Hungary is the only one of the three prospective Nato entrants bolddemand is expected to jump

series.

and the Czech Republic, plan no such move. An unsuccessful vote be a market for solar cells in would call Nato's eastward thinly populated developing expansion into question and deal a severe blow to the Hungarian government's prestige in the run-up to genin the past from being expensive. However, a joint eral elections due next May. statement from the Bonn, But Col Korda seems to have Munich and Düsseldorf gov-ernments said the plants in made his mark, opponents of Nato membership, in the majority earlier this year,

issue, the other two, Poland

production methods that dwindle. According to opinion polls,

have seen their numbers

March, those saying Yes to membership now number more than 70 per cent of the population. About 20 per

cent remain opposed. The referendum was promised by the ruling Socialists before they took power in 1994, by way of appealing to neutralist sentiment. Now

An unsuccessful vote would call Nato expansion

they are stuck with the vote, membership.

ing a referendum on the ted Ft 112m to the propaganda campaign, which has included a 12-part television documentary series on Nato. "support for journalists and the media in describing Nato", and a highly sophisticated CD-Rom, "Natopoly". for use in schools and libraries. This consists of a game in which the players answer questions about Nato. If they get it right, the image of one or other leading politician appears on the screen, declaring they should be in parliament.

Apart from the publicity

postponing a controversial decision on buying new fighter aircraft from the west at a cost of up to \$1.5bn.

Many Hungarians thought that western arms companies were trying to use Hungary's desire to join Nato as a means of pressing the Hungarian government to buy

Anatol Lieven reports from Budapest on a TV campaign seeking

But assuaging anti-Nato sentiment is not enough. The real danger, officials say privately, is of a low turninto question out. If less than 50 per cent

despite the fact that meanwhile, they have themselves become strong advocates of The government has allot-

of the population go to vote on November 16, the government fears it will send a negative message to the western parliaments which have to vote on Nato expansion most notably the US Senate.

n informal poll on the streets of Budapest this week saw a large proportion of those questiooed replying they had not yet decided whether to vote. "It will depend on the weather," was a common But despite popular indif-

ference, the country's political establishment has piled up behind joining Nato, All the parliamentary opposition parties support membership. Opponents are only to be found on the political

clonel Lajos Korda of from only 47 per cent in campaigns, government has fringes. The foes of memberalso reduced opposition by ship include the pacifist Alba Circle, the Workers' party, the descendant of the hardline communists, and the ultra-nationalist Justice

and Life party.
All these groups have complained about the way taxpayers' money bas been spent on the pro-Nato campaign. The Alba Circle complained to ORTT, the television regulatory authority. about Col Korda's proselytis ing appearance on "Familia

ORTT subsequently ordered Hungarian state television to signal clearly that the character had been specially inserted.

One official said that when it came to disseminating the government's pro-Nato views, soap operas left other media forms behind. "This way we can reach millions of people, week after week," be added, "Writing articles just does not compare."

Tibor Csaszar, responsible for the Nato campaign in the foreign ministry, is also

"In a democracy, parliament represents the people. If the government and all the main political parties support the Euro-Atlantic integration process, then we simply do not have the right to give a major voice to the





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common set of technologies, your best guarantee of reliability and quality.

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MORE THAN A CONNECTION

# Iraq urged to delay expulsions

Kofi Annan, UN secretary general, yesterdey appealed to Iraq to relax today's deadline for the expulsion of American arms inspectors.

A UN spokesman said Tariq Aziz, Iraq's deputy prime minister, agreed to consider the plea. He was due to receive later today in Baghdad a three-man diplomatic mission appointed by Mr Annan to discuss the se over inspections.

However, hopes for success were not encouraged by frag's renewed refusal to ailow American investigators to enter a weapons site yesterday. Other inspections were immediately called off because the UN will not allow Iraq to choose the nationalities of inspection

Seven American inspectors were last week ordered to leave by lam local time on Thursday (10pm GMT

US diplomats said the expulsion order was unacceptable and they did not, therefore, acknowledge there was a deadline.

Security Council members were outraged by the latest move to block inspections, which Sir John Weston, UK delegate, termed "curiously disrespectful" and an insult

By Avi Machils in Jerusalem

Israeli tax authorities said

yesterday an investigation

into suspected tax evasion

by News Datacom Research

(NDR), a Jerusalem-based

subsidiary of Rupert Mur-

doch's News Corporation

group, was likely to be con-

Tax officials launched a

public investigation in Octo-

cluded next month.

to Mr Annan while his emis saries were on their way to

A report on tha incident was delivered to the Council hy Richard Butler, Australian head of the commission charged with eliminating Iraq'e deadliest arsenals, but no immediate formal action was expected.

In a separate move yesterday, France and Russia iesued s joint statement urging Iraq to stop defying the UN. The Russian involvement appears calculated to signal to Baghdad that it may not count on any division within the Security

Short of a more serious development snch as an Iraqi attack on a U-2 eurveillance aircraft, which bad been threatened, the Council seems likely to mark time at least until the misslon reports back, probably next Monday.

In the meentime, Mi Annan bopes that President Saddam Hussein himself will agree to see the envoys who are from Algeria, Argentina

Fred Eckhard, the UN spokesman, confirmed that U-2 flight operations would continue regardless of the Iraqi threat, Military experts believe Iraq has little chance of shooting down a U-2.

\$150m (£90m) in income

since 1989. The authorities

say the investigation is the

biggest and most complex in

Israel's history, encompass-

ing 400,000 documents and

the interrogation of dozens

declined to say whether

indictments would be served

against company officials. A

yesterday

Officials

ber 1996 into suspicions that company source said NDR,

# Islamic boycott undermines Jordan's election

By Rageh Omsar in Amman

Jordanians voted yesterday in the first parliamentary election since the signing of a peace agreement with Israel in 1994 to elect a lower house that will be dominated by pro-government independent candidates. The predictabla outcome is due to a boycott by the Islamic Action Front (IAF), the largest opposition party.

The absence of the IAF along with eight other leftwing and pan-Arabist opposition parties is in protest

the number of seats the Islamists could hope to win hy giving a greater proportion of seats to rural areas rather than pro-IAP urban districts.

The election could mark a turning point for Jordan's relationahip with Islamic in the previous parliament in the lower house are stand-groups. For decades Jordan were elected from predoming as indapendents, most of groups. For decades Jordan been almost unique in the region in co-opting the powerful Moslem Brotherhood and other Islamic organisations into the political process, with the active

and the Moslem Brotherhood to boycott the poll has between predominantly Palchanged that relationship and revealed the increasingly Palestinian nature of the Islamist movement in

Many of the IAF's 16 MPs nantly Palestinian urban areas. If, as analysts predict, the election produces a low turnout in these areas but a higher turnout in rural and Bedouin districts it will rein-

against the 1993 Electoral encouragement of King Hus-force political differences not Law which in effect limits sein. The decision of the LAF only between rural and urhan areas, but also estinian and East Bank Jordanian areas. The boycott has had a dra-

matic effect. More than 95 per cent of the 524 candidates contesting the 80 seats them representing purely tribal and regional interests. This produced a lacklustre campaign with little debate of national issues such as the future of the peace

hostility, or economic and whether Jordan should continue with the International Monetary Fund's austerity measures after the current programme ends next year. Several hundred election posters by candidates in Amman which called for an end to normalisation with "the Zionist entity" were torn down and confiscated

by the authorities. Nasir Rashid, the Interior minister said: "All indica-

faces considerable public encouraging. We expect a good turnout." But there trade issues including have been widespread allegations by opposition groups of vote-rigging. In the week before the poll government officials admitted they had found 120,000 duplicated names, the equivalent of 10 per cent of the electorate, on voting lists in several districts and II candidates were being prosecuted. Mazen Armouti. government spokesman, said the arregularity was common in some

Murdoch tax inquiry to conclude soon

NDR had concealed up to renamed News Digital sidiary of News Datacom, a

Systems earlier this year,

had co-operated with the

inquiry. "The company is

confident the storm has

largely passed, and does not

expect any negative conclusions from the investiga-

The Israeli inquiry fol-

lowed a Financial Times

investigation published in

May 1996 into the tax struc-

ture operated at NDR, a sub-

tion," he said.

Against a darkening sky: Israeli and Palestinian negotiators began formal talks in the US yesterday despite the absence of most of the Palestinian team. Delegations led by David Levy, Israeli foreign minister; Mahmoud Abbas, senior PLO member, and Dennis Ross, US special co-ordinator, met at a State Department training centre in Arlington. Meanwhile, construction work went on yesterday on the disputed Jewish settlement of Har Homa in east Jerusalem. A "time-out" on building new settlements is one of the most keenly held Palestinian demands

UK-based company which is

part of News Corporation.

the supply of "smart-cards"

to subscribers of BSkyB, the

satellite broadcaster 40 per

cent owned by News group.

paying subscribers receive

Smart cards ensure that only

Internal documents seen

company organised its

by the FT showed bow the being

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### Court blow to Sharon

By Judy Dempsey in Jerusalem

Ariel Sharon, Israel'e infrastructure minister, yesterday lost a libel suit after a court ruled he had failed to inform Menachem Begin, former Likud prime minister, about his intentions to send Israeli troops as far as Beirut

The court decision was made six years after Mr Sharon began a libel suit against Uzi Benziman, a journalist at Ha'Aretz, a leftwing daily newspaper. Mr Benziman stated that Mr Sharon, defence minister when Israel invaded Lebanon; misled Mr Begin about how far Israeli troops would advance.

At a news conference las night, Mr Sharon insisted the government made the decisions "every part of the way", adding the advance on Beirut was "a direct order from Begin to the chief of staff". Mr Begin died in 1992 after withdrawing from public life in 1983 as casualties

increased in Lebanon. Mr Sharon said he would continue in office. His lawyer would lodge an appeal against the court decision. Mr Netanyahu said he would stand by his minister. Mr Sharon was forced to resign as defence minister soon after the deaths of hundreds of Palestinians in refugee camps close to Beirut in

# Algerian MPs' demonstration is broken up

Algeria's army-backed government yesterday broke up a demonstration by opposition members of parliament protesting against alleged electoral fraud. But opposition parties vowed to step up their confrontation with the regime by calling for more protests throughout the country and a general

Dozens of MPs, representing six opposition parties. tried to march in central Algiers, but found themselves encircled by police. The protest came a day after anti-riot police clashed with student demonstrators and broke up a sit-in by the Rally for Culture and Democracy (RCD), a secular opposition party.

The National Democratic Rally (RND), a new government party, won more than 50 per cent of local and provincial council seats in the elections, according to official results.

Opposition parties called on supporters to demonstrate tomorrow in several Algerian cities, including Oran, Setif and Annaba. "We are raising the stakes

a spokesman for the Movement for a Peaceful Society. The government appears

tests. After allowing two mass demonstrations in Algiers last week, it bas warned parties to halt the demonstrations, reminding them that public gatherings required prior approval.

Meanwhile, President Liamine Zeroual said the parties' complaints would be dealt with through legal channels. More than 1,000 complaints have been lodged. But parties like the RCD said the fraud was so persuasive that they saw no

point in filing complaints. "They are cracking down because they but that our protests won't last and that the opposition will fragment," said Khalida Messaoudi, a leader of the RCD. "But what they face is unity among parties on the question of electoral fraud.'

but in pacifist manner," said

The protesters include most of the legal opposition; the Movement for a Peaceful Society and Ennahda, two Islamist movements; and the Socialist Forces Front and the Rally for Culture and Democracy, two secular, largely Berber-based parties. The Islamic Salvation Front, the now banned party which was stripped of an electoral victory in 1992, plunging the country into nearly six years of bloodshed, had called for a boycott of the local elections.

### **NEWS:** WORLD TRADE

# Travel agents accuse Star airline alliance |R-R wins |Seoul

By Arkady Ostrovsky and

Three of the world's biggest buyers of corporate air travel have accused the Star Alliance, led by Lufthansa of Germany and United Airlines of the US, of failing to deliver price beoefits to pas-

The criticism by American Express. Hogg Robinson also includes Scandinavian Business Travel International and Carlson-Wagonlit comes after Karel Van Miert, the European Union competition commissioner, said last week that be had stepped up his investigation of the Star Alliance and that he could impose strict condi-

tions on its operations.

The EU investigation Is airline alliances, prompted by the planned link-up between British Airways and Brussels and Washington, the Star Alliance - which Airlines System, Thai Airof Brazil - was formally

launched this year. Mr Van Miert said he could not stop the Star Alliance from operating because already allowed it to go and offer joint frequent flyer

the BA-American alliance ing slots at London's Heathcannot begin operating until row airport. He could insist It is cleared by regulators in the Star Alliance gives up ways, Air Canada and Varig to lower fares. BA and Amer-

would take action against part of a wider inquiry into the alliance if it was anticompetitive. Mr Van Miert has already demanded that BA and American give up American Airlines. While 350 weekly take-off and land-

When the alliance was formed earlier this year, its members said it would lead lcan have also said their alliance would result in lower fares. But consumer groups have expressed unease about airline alliances, which sell the US authorities had seats on each other's flights

ahead. However, he said he programmes. The consumer groups say the alliances could push up fares.

The travel agents, which purchase tickets for large companies, say these fears are well-founded. Mike Platt, director of commercial affairs at Hogg Robinson, said: "At present we see no price advantages for customers flying Star Alliance." This view was supported

by American Express and Carlson-Wagonlit, the US-French travel group, which said that although the Star Alliance offered henefits such as joint frequent flyer programmes, it was not price

rate clients are increasingly . Express, looking not only for quality, but also for ways of controlling their travel budgets," said Brian Cronk, commercial director at Carlson-Wa-

accounts and structure

hetween 1988 and 1992 to

The state of Israel yester-

day asked a Jerusalem court

to defer a hearing on per-

sonal charges against Leo

Kreiger, chief financial offi-

cer of NDR at the time, since

they could not provide him

used in

with relevant documents

Israel and the UK

inquiry.

gonlit. Lufthansa said the alliance's fares reflected market conditions. Graham Atkinson, United vice president, said the Star Alliance's worldwide network was attractive to customers. He said: "It's over-simplistic to say 'are prices today lower than yesterday?"

 Business air fares for internal US flights have risen 20 per cent in the last competitive. "Price benefits 12 months, according to a are crucial because corpo- survey by American

writes John Authers in New York. The company's Business Airfare Index suggested that the repeated lapse and reinstatement of a federal tax, introduced in January last year. along with continued growth in the number of passengers, had allowed airlines to raise fares by 34 per cent since

February last year. American Express also found evidence that companies were becoming more aggressive in managing their air travel hudgets, with the average fare paid rising only 10 per cent over the last 12 months, half the rate of increase in overall fares charged.

# \$450m engines

By Michael Skapinker, **Aerospace Correspondent** 

Air Canada has chosen Rolls-Royce engines to power its twin jet Airbus A330-300s. The order is worth up to \$450m to the UK manufacturer.

Air Canada announced in August that it was buying nine A330-300s and taking options on a further 10, but left the choice of engines open. Delivery of the aircraft, which will he equipped with Rolls-Royce Trent 772 engines, will begin in October 1999 and continue until 2001. The airlines will fly from Toronto, Montreal, Calgary and Van-

couver to Europe. Air Canada said it had chosen the Rolls-Royce engines because of their excellent performance, low fuel burn, low noise and emissions, and ease of maintenance".

The Canadian carrier is the ninth airline to order the Trent engina for its A330s. Other customers include Cathay Pacific, Garuda Indonesia, Emirates and the Los Angeles-based International Lease Finance Corporation Air Canada also said dur-

ing the summer that it would be one of the lamch customers for a new generation of four-engined Airbus A340 aircraft. These will also ba powered by Rolls-Royce Trent engines as the UK company is the only manufacturer providing power for these aircraft. Rolls-Royce's two large US competitors, General Electric and Pratt & Whitney, failed to reach agreement

engines for the aircraft. The A340-500 will be a long-haul 313-seat aircraft. capable of flying from Toronto to Hong Kong nonstop. The A340-600 will be an extended version of the standard A340. With seating for 378 passengers, it aims to compete with the Boeing 777 and smaller version of the Boeing 747.

with Airhus on supplying

### traders check out Havana By Pascal Fletcher

Colourful banners banging outside one of the enclosure at an international trade fair in Cuba this week Identified the "Korea Pavilion".

The first thought of most casual observers was that communist-ruled North Korea, a longstanding socialist ally of Cuba, had sent a big delegation to the Havana fair, despite its economic

But closer inspection showed that all the 26 companies in the "Korea" pavilion came from South Korea, which has no formal diplomatic ties with Havana and is a close ally of the US, Cuba'e arch-enemy.

The South Korean busiessmen who had travelled to Havana seemed happy to disregard the political alliances and determined to check out Cuba's potential

as a new market. politics is politics," said Sung Yeon Won, export general manager of the Seoulbased Global & Yuasa Battery. Other companies were selling everything from farm vehicles to kitchen utensils

and pencils. "For most Korean compa nies, Cuba is unknown," said Mr Won. The South Korean delegation included officials from the government Korea Trade-Investment Promotion Agency (Kotra). Kotra director general Min Kyun said business prospects were limited by the lack of diplomatic ties between Seoul and Havana and the size of the state-dominated Cuban market. "If the situation changes, we can come more

Some exhibitors said they would like to see the lifting of the US economic embargo against Cuba before they could seriously consider doing significant business. "I can wait 10 years." said Joon Sang Ji, chairman of the JIS Group, which cells constructlon equipment.

aggressively to the Cuban

market," Mr Kyun said.

# White House gets ball rolling for fast-track

President Blll Clinton's administration is hoping to build enough support in Congress this week to deliver a vital weapon in his trade and foreign policy so-called fast-treck negotisting authority.
A crucial week began with

an elaborate press conference, staged by Tom Daschle, the Senate Democratic leader, who said he would vote for the measure. passed it would give Mr Clinton the authority to negotiate trade agreements which Congress can then either approve or reject

Although there had never Daschle would come aboard administration for producing an unprecedented document" of its broader strategy for trade negotiations - a series of presidential executive orders designed to while they fan out across address concerns of environmentalists and the workers' rights lobby.

The performance drew no endorsements from environmental and labour groups which have formed a powerful opposition along with protectionist business, farm

trade Republicans such as Pat Buchanan, a former presidential candidate.

However, it may provide political cover for congressmen and it gives the impression that the administration has the legislative momentum that would make it possible for many Democrats to vote for the measure.

terday was expected to head off a procedural delay so the legislation can come to the floor today or on Thursday. Although the bill is given a fair chance in the Senate, the outcome in the House may not be clear until the votes are counted on Friday. To sustain the perception

that eupport is building up been any doubt that Mr for the administration'e case, the powerful Business in the end, he praised the Roundtable has called in the services of its 100 chief executives of big US companies. More than 30 will arrive today, leaving their jets parked at National Airport

> Capitol Hill. This is when all the momentum builds," said Virginia Hume of America Leads on Trade, the business lobby'e ad hoc coalition. Members, she said, were "flipping like crazy" - com-

there will be floor votes. Environmentalists have

seen this all before. In 1993. the lohby split with several groups agreeing to support the North American Free Trade Agreement after the administration negotiated what was acknowledged to be weak so-called side agreements. Lax implementation A vote in the Senate yesof those egreements left environmentalists unmoved when the president issued more promises to make the anvironment an issue in trade policy. They want a commitment to austainable

> Republicans have blocked. We understand we can't tell other countries what standards they should have, hut those on the books, should be enforced," said Mr Bill Snape of Defenders of Wildlife. The current language on environment in the fast-track bills had "nothing to do with the broader vision of trade and environment".

development spelled out in

the fast-track law - a move

he said. Furthermore, environmentalists want a reversal of cidental with the administracurrent trade law, which makes it a barrier for any country to try to regulate how its imports are produced - whether with child ing out in favour of fast- labour or fishing nets that geted \$170m for projects and



"Exports equal excrement," say environmentalists opposed to fast-track. Pollution curbs affect farmers like Elmer Wade, of North Carolina, pictured checking his pigs.

kill dolphin.

Administration officials insist that the current fasttrack plans - they differ in the House and Senate - both allow tha negotiation of environmental agreements. Kathleen Rogers of the Andnhon Society, which hacked Nafta. disagrees: "There is nothing in the bill which supports strong implementation of environmental

Whether intentional cointion's push for fast-track or not, a promised clean-up at polluted once-prietlna the US-Mexican border, has begun. Tha Environmental Protection Agency has bud-

to announce loans. But increased trade has

created environmental damaddressed. In North Carolina, the pig has become a symbol of resistance to fasttrack. US swine exports have grown more than 50 per cent since Nafta was passed According to Molly Dig-

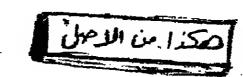
gins of the Sierra Club in North Carolina, the state's soaring hog population has streams. "Exports agnal excrement," she wrote in a letter to her congressman, another tumble on the stock who has yet to decide how to market

the Nadbank - set up to vote. Furthermore, "corpofinance labour and environ-mental schemes - has begun export profits" have hired droves of high-priced lobbyists" to block the environ mental safeguards needed when trade explodes. The lobbyists have had a

tough time against the oppo-

sition of the Molly Digginses of the country. But the administration is bringing out the hig guns this week. All cabinet members have been detailed to explain how fast-track is in the national interest, that the country's foreign policy is at stake, and, worst of all, failure to pass the hill could cause

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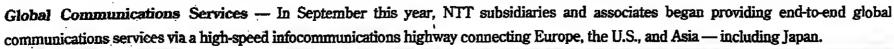


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### Bank's purchase a boost for HK property

Standard Chartered, the international banking group. yesterday gave a vote of confidence in Hong Kong's economy and property market by announcing it would pay HKS1.3bn (US\$168m) for new offices in the territory.

This is a clear billion dollar commitment to the growth and development of our business," said David Brougham, executive director. "It is an expression of our faith in this city."

Hong Kong has been sbaken over the past few weeks by a sharp fall on the stockmarket and assaults on its currency. A rise in interest rates to defend the Hong Kong dollar peg to the US dollar has raised fears that the property and banking sectors, the twin pillars of the economy, will be hit.

Property analysts cautioned against reading too much into a single deal, but they said the announcement and the price of HK\$4,350 per square foot was positive for the market. "It is slightly higher than we would have expected," said Michael Leary, head of property research at Lehman

The site purchased by Standard Chartered is at Millennium City in Kwun Tong, a former industrial zone east of the Kowloon peninsula.

Most property analysts predict a fall in office and residential prices of between 15 and 30 per cent following the recent rise in interest rates. Prime rates were increased from 8.75 per cent to 9.5 per cent last month, following a protracted increase in money market interest rates during financial markets upheaval.

Hong Kong'a financial authorities predict interest rates will soon fall to normal levels, but the Bank of East Asia yesterday moved to raise its mortgage rate. That prompted predictions that some smaller banks might follow suit to offset the impact of increased funding

Under the terms of yesterday's deal, Standard Charnew tower block with an option to lease or buy a further five floors. The lease option rent is set at HK\$20 a square foot, about one-third the rate for prime office space in the central area, according to Mr Leary.

# Suharto relatives test resolve to close banks

By Sander Thoenes in Jakarta

Powerful friends and relatives of President Suharto yesterday tested the government's commitment to reforming the economy by stepping up protests against closure of their banks. A son, a daughter and a half-

brother of Mr Suharto, along with several of his most prominent business associates, protested against a decision of the finance

three of their banks over the Rp5m (\$1,400) each. We will pay import tariffs and delays in infra-weekend, along with 13 other the depositors in cash with our structure projects have all hit the weekend, along with 13 other small and troubled banks.

The closures were a first step towards fulfilling an agreement with the International Monetary Fund and other lenders who pledged more than \$37bn last week to help Indonesia fend off attacks on its currency.

Bank Jakarta, owned in part by Probosutedjo, Mr Suharto's half-brother, yesterday started paying ministry to revoke licences for out dozens of customers up to

[main shareholders'] own money." Mr Probosutedjo said, ignoring the government's decision Saturday to pull the licence of his bank and ban its owners from selling or

withdrawing assets. Mr Subarto has in the past protected his family's business interests from deregulation efforts but this time round he has spared few. Reduced support for a structure projects have all hit the businesses of his relatives and close associates.

Bambang Trihadmodjo, Mr Suharto's son, has threatened to take the finance ministry to court for closing down Bank Androm- tal to pay off \$650m of its \$1.870m eda, in which he holds a 25 per cent stake. He conceded that the bank had exceeded limits on lending to shareholders but said 90 per cent of Indonesian banks national car programme, cuts in ignored that restriction.

shareholders, who used it to inject capital into the Chandra Asri petrochemical plant, in which they and other associates own 75 per

cent. Chandra Asri used the capidebt just days before the government reduced import tariffs on petrochemicals, which had been designed to protect the factory from foreign competition.

Dennis de Trey, country direc-

Bambang and two other powerful faith in the will and ability of government officials to close down the 16 banks regardless of their powerful patrons. They must have known what was going to happen," he said. "They took a very brave stance."

The government also banned owners of closed banks from leaving the country, but newspaper said that the owner of two of the largest banks had already left the

# Japanese car sales suffer sharp reversal

By Paul Abrahams in Tokyo

The continuing fragility of Japanese consumer confidence was underlined yesterday when it was announced that car registrations tumbled 13 per cent in October. the largest drop in a single month this year and the seventh consecutive month of vear-on-vear falls.

"Registrations are in free fall," said Peter Boardman, automotive analyst at UBS in Tokyo. "People are simply just not buying."

Analysts said the latest pointing because of a rash of new product launches and the Tokyo motor show last month, which should have encouraged sales. The sector accounts for about 20 per cent of all Japanese manufacturing and is the largest single segment.

Car registrations dropped 14 per cent to 276,747, data from the Japan Automobile Dealers' Association showed. Demand from the commercial sector was markedly weak, with sales of commercial heavy trucks down 21 per cent. Imports of vehicles of all types fell 25 per cent to

The big five manufacturers all reported lower sales. Toyota's dropped 13 per cent to 169,964; Nissan's 4.1 per cent to 71,600; Honda's 3.1 per cent to 48,704 and Mazda's 13.8 per cent to 21,015. Mitsubishi Motors' sales

were down 31 per cent. Analysts said that the company's staff appeared to have been preoccupied by a racketeertered is buying 15 floors of a | month led to the resignation of the chairman and president of Mitsubishi Motors. Among the big five, only

Mitsubishi'a share price fell, down Y16 at Y512. Analysts said registration data were available on a daily basis and most of the bad news

market.

Poor demand meant Japanese automotive production was likely to undershoot last year's figure of 5.375m, Mr Boardman added. This would be the first fall in four

So far, production had been underpinned by buoyant exports. In the six months to September, these had risen 43.5 per cent to Europe, 24.7 per cent to North America and 10.8 per cent to Asia.

But export growth would data were especially disap- decelerate because Asian and US sales appeared to be slowing. Toyota was predicting its production would fall 13 per cent this month, 4.2 per cent in December and 6.4 per cent in January. The lack of consumer con-

fidence in Japan appeared to be contradicted by data showing household spending increased 2.6 per cent year on-year in September. But Mineko Sasaki-Smith, senior economist at Crédit Suisse First Boston, said the stronger than expected figures ware deceptive because household spending had plumped in Sentember 1996 making year-on-year comparisons flattering.

• The Organisation for Bconomic Co-operation and Development expects to make a "noticeable but not massive" downward revision in its growth forecast for Japan, an OECD official said yesterday, Reuters reports from Paris.

The Paris-based group of ing scandal which last cut its growth forecast for its main parties. Japan both as a result of the impact of Asia's financial turmoil and poor domestic economic indicators. In June, the OECD said it was expecting Japan's gross domestic product to grow 2.3 per cent in 1997 and 2.9 per-



# Perfumed steamroller' faces tough task in NZ

Jenny Shipley, who is due to become New Zealand's first woman prime minister, faces a formidable task as she eks to boost the popularity of the governing National

Her first goal will be to reach accommodation with National's junior coalition partner, the New Zealand First party. Winston Peters. NZ First's leader and deputy premier to Jim Bolger, who is stepping down as prime minister, appears deeply upset at the coup she mounted to unseat Mr Bolger. Both governing coalition

parties have seen steep falls in public support since last year's election. One recent poll gave Labour, the main opposition party, around 50 per cent support. The opposition is led by Helen Clark, the former deputy prime minister in the last Labour government; New Zealand 29 rich countries was set to now has women leading both

> Mrs Shipley and her backers gave Mr Peters no warning they were planning the coup against Mr Bolger, his main ally in parliament. She has made it clear National must assert itself over NZ First, or risk being pulled

unpopularity. Many National rightwing politicians who MFs blame NZ first for have brought great change. allowing the disapproval rating for the coalition to reach

Mrs Shipley said yesterday she would bonour the coslition agreement with NZ First, following initial reports she would seek to pital spending cnts, roles renegotiate it. Her dealings with NZ First are unlikely to be easy, as she has a sometimes acrimonious relationship with Mr Peters, who said yesterday he would not let his party be "captive of a rightwing agenda".

Mrs Shipley will also have to allay unease at the way she mounted the coup. The move was planned while Mr Bolger was overseas at the Commonwealth Heads of Government Meeting in Scotland and while making a state visit to France.

utes after his return she had the numbers to unseat him. "for the good of both the party and the country".

Mrs Shipley - nicknamed the 'perfumed steamroller" by her enemies - will also have to work bard to win down in the wake of NZ's ate deeply suspicious of

rightwing politicians who Six years ago, Mrs Shipley was burned in effigy for the enthusiasm with which she introduced a series of benefit cuts as social welfare minister. Later, as health minister, she was in charge of hosthat made her New Zea-

In her role as transport minister, she has won friends in National by calling for a series of economic reforms, including a further bout of privatisation, which she said was needed to "rebuild and refocus" the party. This saw her personal support in opinion polls rise from nil to 12 per cant. against 15 per cent backing for Mr Bolger.

land's most unpopular politi-

Mrs Shipley, 45, a former She told Mr Bolger min- primary schoolteacher, shows unwavering self-confidence and has never backed Mr Bolger announced some away from unpopular bours later he was stepping causes. She was a colleague down after seven years as of Ruth Richardson, former prime minister and 11 years finance minister, who muleleading the National party, mented many of the country's most controversial economic and social reforms.

Professor Barry Gustafson, a historian of the National party, said her party would lose more votes from the centre if she tried to take it further to the right.

## Bangkok backs telecom sell-off

Ths Thai cabinet yesterday approved a long-delayed telecommunications master plan that paves the way for gradual privatisation and liberalisation of the country's

Under the plan, which could be altered by the country's powerful telecommunications conglomerates or a new government, a telecommunication committee will be set up to regulate the industry. Currently the state-owned Telephone Organisation of Thailand (TOT) and the Communication Authority of Thailand (CAT) serve as monop oly operators and de facto regulators.

The Thai government also plans to set up a telecom holding company to take control of TOT and CAT from the ministries of finance and communications. This holding company will then sell off the organisations sepa-rately, while retaining CAT's mail service fully in state

The process is likely to begin next year, officials said, and could last until the Thai telecoms market was fully liberalised in 2006.

Ted Bordocke. Bonden Ted Bardacke, Bangkok

S KOREAN ELECTION

### Candidate launches new party

Rhee In-je, a young former provincial governor, yesterday formally launched an independent hid in South Korea's December presidential election which polls suggest he might win. The inauguration of Mr Rhee's New Party by the People came amid increasing indications that his candidacy is being secretly supported by Kim Young-sam, the South Korean president, who is openly feuding with the

Although Kim Dae-jung, the veteran leader of the centre-left opposition, remains front-runner in the December 18 election, Mr Rhee has been closing the gap in recent days, according to opinion polls.

Mr Rhee defected from the ruling party in September ifter losing its presidential nomination to Lee Hoi-chang. who was once favoured to win the election. But allegations that Mr Lee's sons dodged compulsory

military service hit his support.

### BANGLADESH AID Strike greets Paris Club team

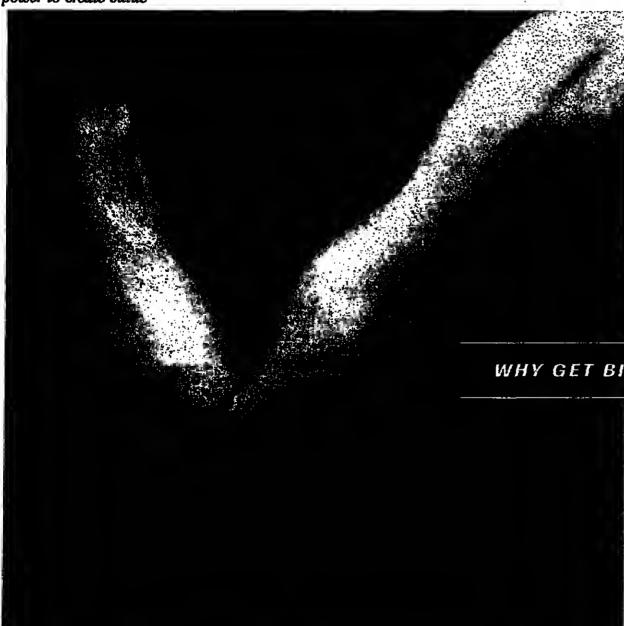
A thousand policemen were brought in to protect delegates at the annual meeting of the Paris Club of western donors to Dhaka yesterday, gathering to examine Bangla-desh's request for \$2.17bn in aid for next year.

Against the back-drop of a half-day general strike called by the opposition Bangladesh Nationalist party, donors criticised the government and the opposition whose actions they said were threatening economic reforms.

and the opposition appears to be ushering in a new cycle of violence, intimidation and instability," said a leaked statement signed by the heads of delegation from 15 coun-

Bangladesh obtained aid commitments of \$1.91bn last year. Shah Kibria, the finance minister, argued for Kasra Naji, Dhaka

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\fillennium bomb risk m rigger L S I tudes to the issue of climate

change was underlined yes-

terday when senior EU offi-

cials put to their US counter-

parts the argument for tough

action to limit greenhouse

before an international con-

ference on global warming

in Kyoto. Japan, there was

little sign of any break in the

deadlock over how much the

developing countries should

environmental con-

ference next month propos-

ing to extend a previously

agreed year-2000 deadline for stabilising emissions of

greenhouse gases at 1990 lev-

els, but calling for reduction

The Canadian govern-

ment, which at the 1992

Earth Summit in Rio de

Janeiro established itself as

a leader in the fight against

global warming, appears to

bave buckled to pressure

from industry leaders and

less ambitious short-term

Chrétien, the prime minis-

the issue than the US, which

has also urged an extension

of the 2000 deadline.

targets beyond 2012.

be required to do.

With less than a month

By Bruce Clark

in Washington

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the bearings marked the start of an "ongoing examination" of critical issues facing policymakers and regulators in the digital age. Ha In testimony before the Sensaid that, while Microsoft was not the subject of the hearing, the issue could not be ignored. "I have not made any secret of the fact that I have serious concerns about Microsofi's recent efforts to exercise its monopoly power and I plan to continue to

examine the company's practices," he said. The senator, whose state is home to Novell, one of states and cities from impos-Microsoft's strongest com-petitors, has long been an access services.

in the event of the Kvoto A huge gap hetween European Union and US attitalks yielding agreement on a climate change convention, it would barely gain 15 of Britain, the Netherlands, of the 67 votes needed for Luxembourg and the Euro-

Even if the US administration initials a treaty and pledges not to send it for ratification unless developing countries join the effort, the lobby groups opposed to any curbs on carbon emissions would cause "an almighty row" on Capitol Hill, according to one congressional

The US proposal for indus-

warned this week that even their heat-trapping emissions at their 1990 levels between 2008 and 2012 was dismissed by representatives

in our view get the develop-

weak to inspire the developing nations to follow suit. The US position will not

ing countries on board," said Michael Meacher, the UK environment minister. He added that Washington could not expect to win approval for its demands for flexibility and 'joint implementation" of agreed curbs

Senior US legislators have trial countries to stabilise - through an international combat global warming. emissions trading system amhitious targets.

The EU, in a position dismissed by almost all politicians in Washington as unreratification in the US Senate. pean Commission as far too alistic, favours reducing nations in Europe, and emissions in 2010 to a level 15 per cent below that of But the widest gap, evi-

dent at a conference in Bonn last month and showing no eign of narrowing, was over the terms in which the developing countries whose emissions are not part of the formal Kyoto agenda - should be required to belp

The US administration has international concern over

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unless it accepted more called for developing nations climate change is the to agree by 2005 to limits on their carbon emissions. But this has been rejected as nnrealistic by industrial denounced by the developing states themselves.

> US opponents of early action, meanwhile, are warning that, even if the developing world accepted that timetable, it would not make the imposition of limits on US industry any more acceptable to them. One of the few US interest

nuclear industry, which has been publicising the virtual absence of dangerous air pollution from its variety of power generation. The nuclear industry is

showing rising self-confidence after a run of publicpolicy successes: an agreement last week to sell US nuclear technology to China, and a vote in the House of Representatives, similar to one passed earlier in the Senate, that would oblige the administration to build a groups which bas whole-

# Brazil to push through fresh budget cuts

By Geoff Dyer in São Paulo

The Brazilian government is preparing new cuts in next year's budget in an attempt to repair the damage to the credibility of its economic policy caused by the turmoil in world financial markets. Fernando Henrique Cardoso, Brazil's president, met yesterday with congressional leaders to urge them to accelerate the passage of

crucial constitutions! reforms aimed at reducing

the fiscal deficit. "We bave to take, as everyone knows, tough but necessary decisions to secure the value of and confidence in the Real," said Mr Cardoso. "History does not pardon those who besitate in

these moments The renewed impetus on the fiscal front came as Braexperienced another nervous dey, following the fall in Hong Koog. Shares on the São Paulo stock exchange's companies initially fell, but by mid-afternoon had risen 2.95 per cent to 10,149 points.

Brazilian shares dropped 22.1 per cent last week after the upbeaval in world financial markets led to increased fears that Brazil, which has an overvalued currency and large fiscal and current account deficits, would be forced into a devaluation.

The government doubled interest rates on Thursday in order to defend the cur-

stabllity to the foreign exchange market but which will aggravate Brazil's fiscal problem by increasing inter-

Ministers refused to give details of the budget cuts or indicate when they might be finalised. Economists estimated the government would try to trim the 1998 budget by up to \$2bn, by reducing investment or by closing state-owned enter

In the first breaking of ranks among the government-aligned political parties, Paulo Maluf, leader of the rightwing Brazilian Pro-gressive Party (PPB), described the rise in interest rates as "pornographic and unaccentable".

 There was some good economic news yesterday when it was announced that the zillan financial markets trade deficit for October was \$829m, down from \$1,23bn the previous month. The result, which was below forecasts, compares with a dcfi-Bovepsa index of leading cit of \$1.31bn in the same month in 1996, making it the first time this year that the montbly trade deficit has been lower than the same period last year.

The figures showed that imports in October were 2.2 per cent lower than in September, suggesting consumer demand for imported products bas slowed. The sharp fall in Brazilian share prices over the past two weeks bas in part been prompted by the rise this rency, which helped bring year in Brazil's trade deficit,

# Canada buckles on greenhouse targets

Gases talks underline EU-US gap

### Proposal is seen as face-saver by the prime minister, writes Scott Morrison

has failed to take a stance that restores the country's once enviable environmental reputation, which has been damaged by reports it has failed to live up to a 1992

treaty to curb emissions. Critics say Mr Chrétien's stance is a weaker proposal than the US position because an action plan to achieve those reduction targets.

western interests to adopt It appears less likely Canada will play a pivotal role The proposal is seen as a at negotiations next month face-saving stance for Jean in Kyoto, Japan, where the European Union will push ter, who has vowed to for a 15 per cent cut from assume a tougher stance on 1990 levels by 2010.

Some Canadian officials suggest they might belp broker an agreement in Japan. Environmentalists, how- much as at the Rio summit.

Canada's prospects of facili- lise greenhouse gas emistating a global deal will be sions at 1990 levels. "Ths hampered by its reluctance to show leadership at bome. The Sierra Club, an environmental group, says devel-

oping nations, which increasingly contribute to global warming, will be less likely to agree to new targets while leading industrialised nations such as Canada have shown little commitment.

Critics say Canada's policy of encouraging industries to cut emissions voluntarily bas failed; recently released government data appear to confirm that view. Environment Canada said

emissions of carbon dioxide increased 11 per cent between 1990 and 1996. despite a 1992 pledge the ever, are outraged Canada hut environmentalists say country would by 2000 stabi-

government basn't done enough so far. We underesti-mated bow difficult this challenge would be," a Canadian official acknowledged.

Environmentalists argue the only way for Canada to show its commitment to the issue would be to announce before the Kyoto meeting a comprehensive plan to reduce greenhouse gases.

Others bave suggested Canada adopt an emissions trading programme similar to the sulpbur emissions the US. "Canada has absolutely no action plan and absolutely no clue on bow it will deliver on its commitments," said Robert MacIntosb, policy director of the be inadequate.

Alberta. The Canadian government will not be likely to make important policy decisions on how to achieve those tar-

gets until after an international agreement is signed. Industry leaders in Canada are insisting on clear targets before agreeing to take action; the government is reluctant to impose measures unilaterally that would be politically unpopular in energy-rich Alberta.

Some cabinet ministers worry the country's economic recovery could be jeopardised should the federal government stymie industrial activity by imposing user taxes on fossil fuels trading scheme in effect in or mandating emissions tar-

Officials and industry leaders argue that any comprehaste would almost certainly



Chrétien: tougher stance

# Millennium bomb risk may trigger US law

in Washington The US Senate is to consider legislation that would Edward Yardeni, chief econrequire all publicly traded companies to disclose progs in dealing with notential problems resulting from the effect of the year 2000 on

computer systems - the so-called millennium bomb. Boh Bennett, chair of the Senate banking subcommittee on financial services and technology, said yesterday possible risks to investors and the economy as a whole of companies being unprepared for the problem were so enormous that he was

preparing legislation to force them to take action. The year 2000 problem is more than a computer problem: it is a pervasive business issue for which there is no quick fix," he said at a hearing on the issue. "A failure in one computer system could not only devastate the operation it controls but could domino through other systems and cause other seemingly nnrelated

operations to shut down." The problem arises from the fact that many computer systems use a two digit dating system, making it impos-sible for them to tell

By Louise Kehoe in San Francisco and Mark Suzman

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Senate attack

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However, Microsoft was not without its supporters.

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# Growth prospects in US look good

By Gerard Baker in Washington

Immediate prospects for US economic growth continue to look positive, according to the latest monthly analyof recent statis

lisbed yesterday. The Conference Board, private sector research group, said its main index of leading economic indicators rose by 0.2 per cent in September. The rise followed similar increases in July and August and reflected the continuing strong performance of the economy and financial markets this

The index, a composite of 10 monthly published indicators, is a reasonably accurate predictor of economic activity in ahont six months' time. In the six months to September, the index increased by 0.9 per cent, and seven of its 10

components advanced. The main contributors to the increase in September were a fall in weekly claims for unemployment insurance and money supply growth

> indicators, which reflect current growth, increased by 0.3 per cent The figures are consistent with recent data published

np to last month which suggested the ontlook for growth remained positive. The US economy expanded at an annual rate of 3.5 per cent in the third quarter, following increases of 3.3 per cent and 4.9 per cent in the previous two

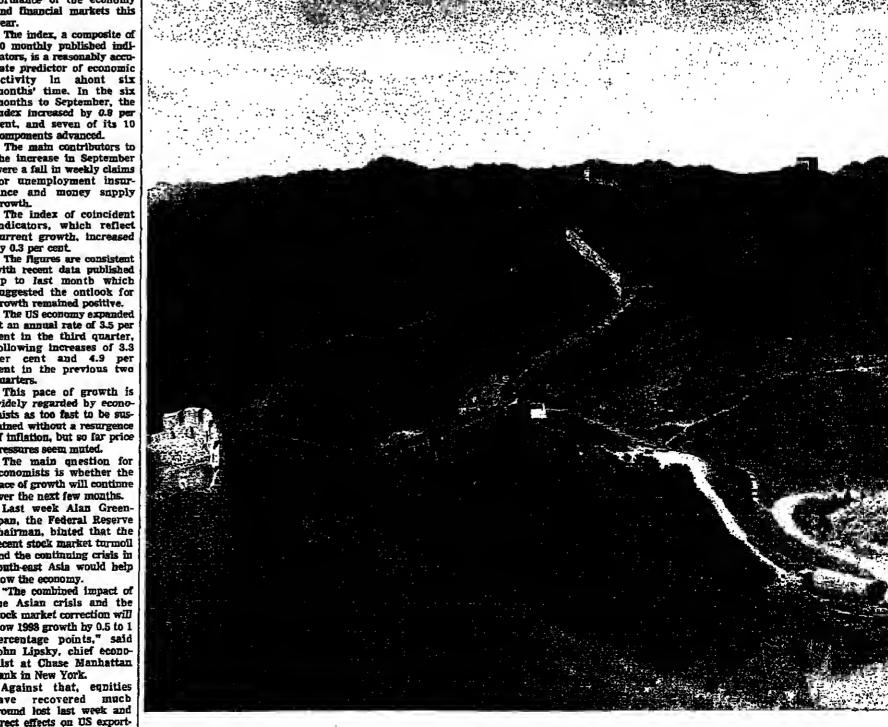
quarters. This pace of growth is widely regarded by economists as too fast to be sustained without a resurgence of inflation, but so far price

pressures seem muted. The main question for economists is whether the pace of growth will continue over the next few months.

Last week Alan Greenspan, the Federal Reserve chairman, binted that the recent stock market turmoil and the continuing crisis in south-east Asia would help slow the economy.

"The combined impact of the Asian crisls and the stock market correction will slow 1998 growth by 0.5 to 1 percentage points," said John Lipsky, chief economist at Chase Manhattan Bank in New York. Against that, equities

bave recovered much ground lost last week and Separately yesterday, the Senate commerce committee overwhelmingly approved a direct effects on US exportcontroversial hill to restrict ers of a slowdown in Asian countries may not significantly erode growth pros-



Probably the best beer in the world.

# Defence entente with Russia to widen

By Alexander Nicoll in Moscow

Britain and Russia yesterday agreed to strengthen scientific and technical cooperatioo in the defence field as part of a wide accord on military contacts.

A proposal by George Robertson, the chief UK defence minister, to step up links with Russian defence scientists was welcomed at a General Igor Sergeyev, the Russian defeoce minister.

The UK government's specialist research body, the Defence Evaluation and Research Agency, already has an office in Moscow

Russian scientists for civil- tre for land mine removal stand that there are still ian and commercial uses. agreement is to deepen con-military supported President

organisations. The chief sci-

Moscow next year. Gen Sergeyev and Mr Robertson signed an agreement to set up a Russo-British commission on co-operation between the meeting in Moscow with two defence ministries. It will recommend areas for joint scientific research work and exchanging information

ment. Gen Sergeyev accepted the British invitation for Ruswhich taps the expertise of sian experts to visit the cen. Nato expansion: "We under-

on the procurement of equip-

The purpose of yesterday's son is setting up. He said the tact with Russian research Boris Yeltsin's acceptance that Russia should work entist of the UK Ministry of towards a land mine ban.

Defence is expected to visit 4 Mr Robertson's visit to in central Europe, and that Moscow was intended to side-by-side with that will go establish structures for beightened contact between the armed forces, part of a to plan joint naval exercises British government plan to develop "defence diplomacy" as a means of cementing lasting peace in the post-Cold War era. "We came here with a positive programme which has been agreed," he said.

Mr Robertson sought to ease Russia's opposition to

techniques which Mr Robert- apprehensions in Russia about Nato expansion, but it is a strong view of the new British government that a limited expansion of NatO is designed to produce stability

a bilateral relationship." The two ministers agreed for the first time. Naval staff will be asked to develop a programme which would be formally agreed at the ministers' next meeting in early December, Mr Robertson said: "Co-operation between the two great navies will start very quickly indeed."



Observer, Page 13 Defence chiefs Sergeyev and Robertson in Moscow yesterday

# Businesses demand reforms in export promotion

By Stefan Wagstyl, Industrial Editor

British business has urged the government to review radical options for the future of trade pro-Office and the Department of Trade and Industry in export support and handing over some services to the

Industry - the principal employers'

organisation - the British Chambers of Commerce and the Institute of Export presented their demands unanimously at a governmentsponsored Export Forum. composed of government officials and motion, including the possible husiness executives, which was merger of the roles of the Foreign established this summer to examestablished this summer to examine export promotion.

The forum, which presented its conclusions yesterday, limited The Confederation of British the existing regime. Amid tensions

concluded that it did not have the remit or the time to consider structunity to press ministers for a second panel to examine more radical options.

and would lead to more effective between the government officials export promotion. A number of the structure.

entatives, it options were presented to the forum...some of which raised questions over interdepartmental tural reforms. However, the CBI relationships, particularly those and its allies have seized the opporeign Office.)"

Mr Ian Campbell, director gen-The report says: "Strong views these words referred to calls from tor representatives that substantial for an examination of structural itself to proposals for improving structural change was necessary issues. He said the private sector

the trade minister, and Derek Fatchett, the foreign minister responsible for trade, supported most of the report's other conclusions, including a call to focus new export initiatives oo just 12 prioreral of the Institute of Export. said ity markets instead of the current 80. The markets are western were expressed by the private sec- the private sector representatives Europe and the US for new exporters and for experienced exporters Brazil, China, Egypt, India, Japan, wanted the opportunity to review . Poland, Russia, South Africa, south east Asia and Turkey.

UK NEWS DIGEST

# **US-style lottery** ruling delayed

Royal Opi

ips are ti

Ministers have delayed publication of a paper on the possible banning of a new rival to the national lottery. even though it will be launched in hundreds of pubs and clubs later this month. The Home Office is undecided whether to attempt to ban the Pronto! game, a rapid draw contest similar to the Keno games seen in bars across the US, on the grounds that it combines gambling with alcohol, and could be addictive.

George Howarth, a Home Office minister, accepts that legislation would be needed to stop the game, which will be run by Inter Lotto, a charity lottery manager partly owned by Crown Leisure. The Home Office had promised to publish a consultation paper on rapid-draw gambling in pubs and clubs in October, but there is still no sign of

The Pronto! game has also alarmed Camelot, the consortium which runs the National Lottery, whose application for permission to run its own rapid-draw games in pubs and clubs has been rejected by the lottery regulator The members of Camelot are Cadbury Schweppes, the UK food and drink group; De La Rue, the security printers; Racal Electronics; ICL, a UK offshoot of Fujitsu; and GTech, the US lottery equipment supplier. George Parker

CAR TRADE TAX FRAUD

### Ex-chief 'would not survive trial'

The inland Revenue yesterday finally dropped its attempts to prosecute Octav Botnar, the former chairman of Nissan UK, the car distributors at the centre of

Britain's largest ever tax fraud. Two warrants for the arrest of Mr Botnar, who has lived in Switzerland since the discovery of the fraud, were withdrawn on the grounds of his severe ill health. Mr Botnar, who is 84 and suffers from a number of serious lilnesses. would not survive any criminal trial, the revenue told

magistrates in Worthing, southern England. However, Mr Botnar afterwards continued to maintain his innocence and insisted the decision to withdraw the warrants had nothing to do with his health. He accused the revenue of seeking to avoid the real issues about the

case, which was due to be heard in court later this month. The fraud, carried out between 1975 and 1992, involved Nissan UK artificially inflating freight charges to enable money to be siphoned off to a Swiss bank account. It enabled the company to evade £55m (\$91m) in corporation tax. The revenue claimed a total loss to state funds

RETAIL BANKING

### \$9m call centre for N Ireland

Abbey National is to open a call centre in Belfast, the capital of Northern Ireland, in an investment worth £5.8m (\$9.62m), it announced yesterday. The bank's new call centre will create 338 jobs as part of an expansion of its existing customer telephone services.

At the same time it is establishing a financial software support and development centre, which will provide 100 jobs, mostly at graduate level, working on projects for the retail banking sector. Abbey National has been given £3.3m by the government's industrial development board towards the cost of the expansion.

Lord Tugendhat, chairman of Abbey National, said the former mutually-owned home loans and savings institution had chosen Belfast because of the good supply of well-educated people with a positive attitude to work.

MOBILE PHONES

### Wider supply of services urged

Cellnet, the UK-based mobile phone operator, and Logica a leading UK information technology group, are collaborating in the creation of a forum to encourage the development of commerce services for mobile phones.

The two companies suggest that customers will be using these services within 18 months. A pioneering example is the "Barclaycard phone" through which customers can see their Barclays bank and credit card balances. Organisations which have indicated they intend to join the forum include Alcatel of France, American Express of the US, the British Retail Consortium and Sony of Japan.

**■ REGIONAL INVESTMENT** 

### County attracts French projects

Locate in Kent, established less than a year ago to attract investment to the south-east England county of Kent, attracted 28 projects by UK and other companies in Its first half year. Projects announced this year include SBE. a French mobile telephone repairer, and Master Memory Europe, relocating from France to the port of Dover, which will market computer components

Locate in Kent has increased its target for creating jobs by 40 per cent for 1997-98. The new target follows a study by accountants Price Waterhouse, setting the organisation's performance against that of other UK regional development bodies.

# **EU** loophole is sought in advert ban on tobacco

By Nicholas Timmins and John Griffiths

The UK will back an BU directive hanning almost all forms of tobacco advertising and promotion if an exemption from the sports sponsorsbip ban is granted for Formula One, Tessa Jowell, the minister for public health, has told her opposite numbers in the European Union.

In return, Formula One has agreed in principle to negotiate a voluntary reduction worldwide in the visibility of the £100m (\$166m) a year it takes in tobacco sponsorship.

If other European countries agree, the directive could be approved next month, while the protection of Formula One's tobacco money raises the chances of a successful stock market float next

Ms Jowell wrote to fellow health ministers yesterday arguing that the "globaj" nature of Formula One means a ban could not effectively be enforced. The a spokesman said.

sport would move to eastern Europe and Asia. With no controls over tnbacco advertising and no means of banning television pic-tures, the likely result would be more exposure of young people to tobacco promotion through Formula One than at present.

Details of the new curbs have yet to be negotiated but restrictions on circuit, on-car and driver overalls advertising are all under consideration. The EU's negotiating position will be weak, however, if the directive is approved on December 4 ahead of an

agreement with FIA. The UK's move was described as "a complicating factor" by the office of Padraig Flynn, the EU commissioner responsible for the directive, and it is not clear that other countries will agree to the con-

However, Action on Smoking and Health branded it "a sell out". Formula One "is effectively one big tobacco billboard".



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## Gases talks underline EU-US gap By Bruce Clark

In Washington

A huge gap between European Union and US attitudes to the issue of climate change was underlined yesterday when senior EU officials put to their US counterparts the argument for tough action to limit greenhouse emissions.

With less than a month before an international conference on global warming in Kyoto, Japan, there was little sign of any break in the deadlock over how much the developing countries should

greenhouse gases at 1990 lev-

els, but calling for reduction

targets beyond 2012. The Canadian govern-

warned this week that, even in the event of the Kyoto talks yielding agreement on a climate change convention, it would barely gain 15 of the 67 votes needed for ratification in the US Senate.

Even if the US administration initials a treaty and pledges not to send it for ratification unless developing countries join the effort, the lobby groups opposed to any curbs on carbon emissions would cause "an almighty row" on Capitol Hill, according to one congressional

The US proposal for indus-

sions at their 1990 levels between 2008 and 2012 was dismissed by representatives of Britain, the Netherlands, Luxembourg and the European Commission as far too

ing nations to follow suit. The US position will not m our view get the developing countries on board," said Michael Meacher, the UK environment minister. He added that Washington could not expect to win approval for its demands for flexibility and "joint implementation" of agreed curbs

weak to inspire the develop-

Senior US legislators have trial countries to stabilise - through an international combat global warming. their heat-trapping emis- emissions trading system unless it accepted more ambitious targets.

The EU, in a position dismissed by almost all politiclans in Washington as unrealistic, favours reducing emissions in 2010 to a level 15 per cent below that of

But the widest gap, evident at a conference in Bonn last month and showing no sign of narrowing, was over the terms in which the developing countries whose emissions are not part of the formal Kyoto agenda should be required to help

The US administration has called for developing nations to agree by 2005 to limits on their carbon emissions. But this has been rejected as unrealistic by industrial nations in Europe, and denounced by the developing states themselves.

action, meanwhile, are warning that, even if the developing world accepted that timetable, it would not make the imposition of limits on US industry any more acceptable to them. One of the few US interest groups which has whole-

climate change is the nuclear industry, which has been publicising the virtual absence of dangerous air pol-Intion from its variety of The nuclear industry is

international concern over

power generation. showing rising self-confi-US opponents of early dence after a run of publicpolicy successes: an agreement last week to sell US nuclear technology to China, and a vote in the House of Representatives, similar to one passed earlier in the Senate, thet would oblige the

# Brazil to push through fresh budget cuts

By Geoff Dyer in São Paulo

The Brazilian government is year's budget in an attempt to repair the damage to the credibility of its economic policy caused by the turmoil in world financial markets. Fernando Henrique Cardoso, Brazil's president, met yesterday with congressional

leaders to urge them to accelerate the passage of crucial constitutional reforms aimed at reducing the fiscal deficit. "We have to take, as

everyone knows, tough but necessary decisions to secure the value of and confidence in the Real," said Mr Cardoso. "History does not pardon those who hesitate in these moments."

The renewed impetus on the fiscal front came as Brazilian financial markets experienced another nervous day, following the fall in Hong Kong. Shares on the São Paulo stock exchange's Bovepsa index of leading companies initially fell, but by mid-afternoon bad risen 2.95 per cent to 10.149 points.

Brazilian shares dropped 22.1 per cent last week after the upbeaval in world financial markets led to increased fears that Brazil, which has an overvalued currency and large fiscal and current account deficits, would be forced into a devaluation.

The government doubled interest rates on Thursday

stability to the foreign exchange market but which will aggravate Brazil's fiscal preparing new cuts in next problem by increasing interest costs.

Ministers refused to give details of the budget cuts or indicate when they might be finalised. Economists estimated the government would try to trim the 1998 hudget by up to \$2bn, by reducing investment or by closing state-owned enter-

In the first breaking of ranks among the government-aligned political parties, Paulo Maluf leader of the rightwing Brazilian Progressive Party (PPB). described the rise in interest rates as "pornographic and unacceptable",

There was some good economic news yesterday when it was announced that the trade deficit for October was \$829m, down from \$1.23bn the previous month. The result, which was below forecasts, compares with a delicit of \$1.31bn in the same mooth in 1996, making it the first time this year that the monthly trade deficit has been lower than the same period last year.

The figures showed that imports in October were 22 per cent lower than in Sentember, suggesting consumer demand for imported products has slowed. The sharp fall in Brazilian share prices over the past two weeks bas in part been in order to defend the cur- prompted by the rise this rency, which belped bring year in Brazil's trade delicit.

# Canada buckles on greenhouse targets

anada is expected to arrive at a global Proposal is seen as face-saver by the environmental conprime minister, writes Scott Morrison ference next month proposing to extend a previously agreed year-2000 deadline for stabilising emissions of

has failed to take a stance that restores the country's once enviable environmental reputation, which has been damaged by reports it has failed to live up to a 1992

ment, which at the 1992 Earth Summit in Rio de treaty to curh emissions. Janeiro established itself as Critics say Mr Chrétien's a leader in the fight against stance is a weaker proposal global warming, appears to than the US position because have buckled to pressure from industry leaders and Canada has not amounced an action plan to achieve western interests to adopt those reduction targets.

less ambitious short-term It appears less likely Canada will play a pivotal role The proposal is seen as a at negotiations next month face-saving stance for Jean in Ryoto, Japan, where the Chretien, the prime minis-European Union will push ter, who has vowed to for a 15 per cent cut from assume a tougher stance on 1990 levels by 2010. the issue than the US, which Some Canadian officials has also urged an extension

suggest they might help broement in Japan, Environmentalists, how- much as at the Rio summit, ever, are outraged Canada but environmentalists say country would by 2000 stabi-

hampered by its reluctance to show leadership at bome. The Sierra Club, an envi-

ronmental group, says developing nations, which increasingly contribute to global warming, will be less likely to agree to new targets while leading industrialised nations such as Canada have shown little commitment. Critics say Canada's policy

of encouraging industries to cut emissions voluntarily has failed; recently released government data appear to confirm that view. Environment Canada said

emissions of carbon dioxide increased 11 per cent between 1990 and 1996, despite a 1992 pledge the

Canada's prospects of facili-tating a global deal will be sions at 1990 levels. "The government hasn't done enough so far. We underestimated how difficult this challenge would be," a Canadian official acknowledged.

> Environmentalists areve the only way for Canada to show its commitment to the issue would be to announce before the Kyoto meeting a comprehensive plan to reduce greenhouse gases. Others have suggested

Canada adopt an emissions trading programme similar to the sulphur emissions trading scheme in effect in the US. "Canada has absolutely no sction plan and absolutely no clue on how it will deliver on its commitments," said Robert MacIntosh, policy director of the be inadequate.

Pembina Institute, an envi-ronmental think tank in The Canadian government

will not be likely to make important policy decisions on bow to achieve those targets until after an international agreement is signed. Industry leaders in Canada are insisting on clear targets before agreeing to take action; the government is reluctant to impose measures unilaterally that would be politically unpopular in energy-rich Alberta.

Some cabinet ministers worry the country's economic recovery could be jeopardised should the federal government stymie industrial activity by imposing user taxes on fossil fuels or mandating emissions tar-

Officials and industry leaders argue that any comprebensive plan adopted in haste would almost certainly



Chrétien: tougher stance

# Millennium bomb risk may trigger US law

By Mark Suzmar In Washington

of the 2000 deadline.

The US Senate is to consider legiclation that would Edward Yardeni, chief econrequire all publicly traded omist at Deutsche Morgan companies to disclose prog- Grenfell, endorsed Mr Bential problems resulting from the effect of the year 2000 on computer systems - the-

so-called millennium bomb. Bob Bennett, chair of the Senate banking subcommittee on financial services and technology, said yesterday possible risks to investors and the economy as a whole of companies being unprepared for the problem were so enormous that he was preparing legislation to force

them to take action. "The year 2000 problem is more than a computer problem; it is a pervasive business issue for which there is no quick fix," he said at a hearing on the issue. "A failure in one computer system could not only devastate the operation it controls but could domino through other systems and cause other seemingly narelated sure of a company's progress operations to shut down."

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ing policymakers and regula-

said that, while Microsoft

was not the subject of the hearing, the issue could not

be ignored. "I have not made

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# THE GLOBAL COMPANY

Financial Management Tapping global capital

hased chsmlgroup, listed its shares on New York Stock Exchange six weeks ago it was a symbolic acknowledgment that a company which aspires to be in operations nowadaya must also be global in its approach to finance.

Intensifying international competition and high domestic costs are forcing German businesses - among others - into radical restructuring and a much greater reliance on global securities markets.

Hoechst is one of the restructuring pace-setters, aiming to transform Itself from a diversified chemicals group into a life-sciences business focused sharply on ahareholder value, it sees a New York listing as a necessary part of this, even though it has no immediate plans to raise new funds.

Says Jürgen Dormann, the chairman: "It is our conviction that this company should become more international. The financial markets are open and interconnected, so why should we exclude direct access to the US capital markets?"

In this, as in all other aspects of finance, global companies are finding life increasingly complex.

The risks inherent in financial derivatives, and the speed at which markets change, have intensified the central challenge facing financial officers: how do you exert the right degree of control over operations are necessarily decentralised, and know local conditions better than you, while at the same time minimising risk and trying to achieve the lowest cost of

Companies adopt widely differing approaches to control, but common to all is the growth of headquarters guidelines on what Is permitted by subsidiaries.

# Growth's financial complications

A company that seeks to extend operations around the world needs new financial structures to match, says Martin Dickson



These range from the establishment of Ideal capital structures for each country, for tax planning purposes, to rules on foreign exchange hedging or the use of exotic instruments.

For a significant number, clearer guidelines have gone hand-in-hand with greater exertion of control by the centre. "Compared to 10 years ago, there's a much higher tendency for centralisation of financial treasury control at Unilever," says Jan Haars, treasurer of the Anglo-Dutch group. "The size of the company, and the risks involved, means it makes a lot of sense to look at it

A similar trend is under

way at General Motors, the largest manufacturer, which has

region." car Central control also allows a company to manage the just set up a treasury centre in Singapore to serve its group's overall risk position Asian operations. "There's a much more efficiently,

centre doing it for an entire

Hoechst, says many of its

within the group's overall

guidelines, but they have to

offer corporate headquarters

the right of first refusal in

The risks inherent in financial derivatives, and the speed of markets, have intensified the challenge facing financial officers

lot of potential to bring Eberhard Cleff, treasurer at efficiencies into the system by centralising," says Mark local managers can decide Greenquist, assistant their hedging strategies, treasurer. "There's no point having a couple of people in accounting doing foreign exchange hedging when you can have people at the executing any deal at

market conditions, since it can offset a lot of their risk positions internally.

antonomy hut we can still manage the group position," he explains, "We operate like a quasi-bank, without heing a profit centre."

In the tax field, countries aggressive in their approach to multinationals. Says Roger Muray of Brust & Young: "All the time, individual countries' tax systems are working against the company's desire to globalise."

issue of transfer pricing the internal prices charged by one arm of a multinational to another. John Coomhe, finance director of Glazo Wellcome, group, says this used to be a the tax opportunities. "As more countries get in on this Industries have grown up building computer programs to analyse these things."

Own words

hecoming more Take, for example, the

the UK pharmaceuticals. company, new valuation. subject of debate mainly something you have to take of \$20bn, is traded in New with the British and US tax on hoard," says Nick York, Toronto, Frankfurt authorities, but increasingly Pasricha of Ernst & Young's and Tokyo as well as in other countries are spotting corporate finance practice, it becomes a major logistical that influence." exercise . . . We have All this, then, should supplied literally millions of make It harder for documents to the US. companies to indulge in the

As for funding their global ambitions, multinationals increasingly accept that to a healthy check on imperial achieve the lowest cost of ambition.

international markets. For many non-American companies, a vital element is an equity listing in the US, the world's most liquid and efficient market. For US companies, the rest of the world is not so compelling. though even they can find useful the additional liquidity of international listings: in 1992, when General Motors desperate to bolster itself with fresh equity, it undertook a roadshow to Europe and Asia.

capital they have to tap the

Says Mr Greenquist: "It would be myopic to forget about the rest of the world. But we also have to be realistic - the US is still the largest, deepeet capital

Greater rellance international markets is forcing global companies to pay more attention to debt rating agencies and to investors on the cutting edge of the "shareholder value' debate - most of them in the

example, sophisticated institutional investors are focusing much greater attention on whether companies are gearing up their balance sheets sufficiently with cheap debt, rather than expensive equity. That is exposing some transatlantic cultural differences, since European companies tend to have a more cautious approach to financial leverage.

And while most Europe companies still focus on traditional . performance measnres, such as profitability ratios and earnings per share growth, US fashions are forcing them to look at new yardsticks. designed to measure the value they are creating for investors, such as economic value added (EVA) and total shareholder return (TSR).

Unilever, for example, recently adopted TSR as its corporate financial objective, place of earnings growth. lt will monitor ita performance against a peer group of 20 multinationals which broadly match its spread across products and

"If you're a global techniques are just "hecause a proportion of your investors are subject to

kind of expansion which dots the map with the corporate logo hut produces poor investment returns. Global finance brings with ft

Case study Deutsche Telekom / Teletonos de Mexico

# Benefits of funding from overseas

Ralph Atkins and Leslie Crawford on the effects of privatisation

or two former state- owned telecommunications monopolies, Telefonos de Mexico Deutsche Telekom, and there was no alternative to the global capital markets when they were opened to private-sector ownership. Telmex made the jump in 1990, Deutsche Telekom in November 1996.

In hoth cases, domestic financial markets did not provide enough capital to absorb such huge offerings. "The German market is not so mature." says Joachim Kroske, Deutsche Telekom's finance director. Faced with the limited scale of Mexican capital markets. Telmex had been tapping international hond markets for years. Even today, only \$1bn of the company's \$3.5bn long-term debt is in pesos.

Opening up to a wider world has had beneficial side-effects. Mr Kröske says Deutsche Telekom's international listing, and the demands it placed on the group to boost shareholders' interests, fitted with the group's strategic ambitions. We needed the access to capital markets hecause of the demand for equity, but if we wanted to be a global player we had also to meet giobal standards."

In Telmer's case, international ownership provided scope for foreign alliances. Southern Bell Corporation of the US and France Telecom International each own 24.5 per cent of Telmex's voting stock, and hold two of the five seats on Telmex's executive committee, in charge of the day-to-day running of the company. The stock. with a market capitalisation Mexico City.

Following Dentsche Telekom's listing, 33 per cent of the company's shares were held outside Germany. including 14 per cent in the Americas and 8 per cent in the UK. In Telmex's case, almost 85 per cent of the free float of the stock is held by foreigners, making Telmex the most liquid American Depositary Receipt on the

New York Stock Exchange.

In both cases, the globalisation of the companies' finances has changed the way the companies report their results. Deutsche Telekom had to adjust to US GAAP (Generally Accepted Accounting Principles) which Mr Kröske says the group believes is better anyway for investors. "It gives investors more and better information". Quarterly results and divisional breakdowns are still in the pipeline, hut the company has started extensive twice-ayear international results

roadshows. Telmex has also had to respond to foreign investors. Differences between Mexican and US GAAP, mainly affecting inflation accounting, pension henefits, and deferred income taxes, are reconciled once a year. Four times a year. Telmex issues quarterly results and holds conference calls which attract, on average, about

150 foreign fund managers. Mr Kroske - now used to presenting Deutsche Telekom's pitch around the world - says the biggest differences in the demands of investors are between retail and wholesale investors. rather than between different nationalities. But there are geographic subtleties. US and Asian investors tend to be less concerned about operational matters. "The US investors look at your strategy: how is your approach to the US? Are you only a telecommunications company or do you want to he an information company? But the British or other Europeans look at whether you have cut costs, what your advertising hadget is.'

For Telmex, the change of ownership was just the beginning. "Privatisation was the point of departure for accelerated, dynamic change," says the company. A year after Deutsche Telekom's partial privatisation, Mr Kröske says it is hard to separate the effects on management of listing interoationally from the company's broader transformation. He says, however: "It is very useful to have foreign investors. They also make you fit for international competition. The questions they ask. what they stress or do not stress, gives you an idea of how other people look at your company. You can always learn something."

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Tore Bertillson, SKF

### Taking a twin-track route to investment decision-making

Tore Bertilsson is finance director of SKF, the Swedish bearings company.

We have tried to put in place a financial reporting structure which closely scrutinises costs and investment without hampering operational management or

strangling innovation. Basically, we have a twin track approach that gives production managers in different parts of the world whether Sweden, Malaysia or Brazil - relative freedom on investment

decisions.

In a company of this size, it would create a terrible bottleneck if managers had to refer to the Gothenburg headquarters to approve every spending requirement.

A factory extension in Italy, for example, would come across my desk only If it was an exceptionally large investment. Normally,

the approval would be given by the country manager. That does not suggest any looseness in financial controls - only that we helieve line managers are bast placed to take local spending decisions. Under the SKF financial reporting system, any sizeable investment would be subject to very strict guidelines. A manager

seeking a large capital

Injection to expand would have to demonstrate the projected cash flow and likely payback on the money laid out.

So there is a set of investment frames, related to the size of the business and spending requirements which would be approved at different levels of the organisation.

This process works in parallel with the group treasury function. The group treasurer, who reports to me, has regional treasurers based in some our largest markets - Germany, France, Italy, Singapore and North America. Their role is to calculate likely returns on investment and to organise

access to capital. These regional treasurers have responsibility for drawing up the capital structure of a fundralsing exercise in a particular

There are two exceptions however. The treasury functions in Asia and South America are now being centrally administered from Gothenburg, partly because we need to manage currencies better than we have in the past.

For all of us, there is a growing pressure to expand in emerging markets. At SKF, we want to reduce our dependence on western Europe, which accounts for 65 per cent of our



manufacturing base. The group has made a strong start by capturing 35 per cent of the South American market and tablishing plants in Malaysia, India, China, Korea and Indonesia. The growth rates there are much more attractive than in stern Europe.

But the next phase of growth will probably be stwards in Europe, in countries such as Poland. Demand in that part of the world grew by 40 per cent

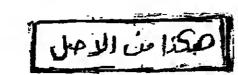
last year. It is an under-utilised area both for sales and production and we want to step up our investment there. If we can produce at lower cost outside western Europe, there could be a shift in future manufacturing capacity. It is not something that will happen overnight, but if we don't make a start

Interview by Tim Burt

someone eise will do It.

In Friday's FT: Conclusion - The global company in the 21st century

Victor Fung.



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Allert Williams

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# Royal Opera | Memories of 1992 haunt Labour House close to insolvency, MPs are told

By Liam Halligan and Antony Thomcroft

The Royal Opera House is on the point of insolvency, and could cease trading within a week, Lord Chadlington, tha company's chairman, told MPs yesterday.

"If we do not find funds in the very short term, then the probability is that the house will become insolvent," he told the culture and media committee of the House of Commons.

Chris Smith, chief culture minister, said he might, in the light of Sir Richard Eyre's forthcoming inquiry into the future of Covent Garden, abolish the company's state grants in the form of a £15m (\$24.9m) annual Arts Council subsidy and £78m national lottery grant.

"One option I have considered, and would ask Sir Richard to consider, is to say to the ROH, that you are on your own - no more public money," he said. Mr Smith made clear the ROH would receive funding for the current £214m redevelopment of Covent Garden.

Lord Chadlington said that although the opera company's financial situation was "grave", there was a "small opportunity" that a private donor would emerge.

"Several third parties have Sir Jeremy Isaacs, former been approached," be said, ROH general director. "The without disclosing details. In July, the ROH was saved from insolvency by a £2m donation from a benefactor.

Gerald Kaufman, committee chairman, asked Lord Chadlington bow long the ROH would survive, given its £4.7m deficit. "We need to know what time-scale you are on," he said. "The blood is dribbling away - we are losing money by the hour."

"We have to present balanced bodgets to the Arts Council by November 12,"

# Membership of ERM may be necessary to join a European single currency

troubles. "The figures on

which we made decisions

would change month by

month in the most alarming

The committee was highly

critical of the nature of the

appointment of Mary Allen,

ROH chief executive. Covent

Garden was plunged into cri-

sis in May when Genista McIntosh suddenly quit the

post. Lord Chadlington.

immediately appointed Ms

Allen, his former Arts Coun-

cil colleague, to the £90,000-a-

"I continue to be perplexed

Mr Smith was criticised

over his recent call for the

English National Opera to be

housed at Covent Garden

along with the ROH and the

Royal Ballet. Mr Smith said

yesterday that to save

should take turns to occupy

the London base, as well as

also going on tour.

money, the three companies

and flummoxed by this whole affair," said Mr Kauf-

way," he said.

year post

spectre haunts the Labour government's A Labour government's declaration of intent to join the European single currency - the spectre of an exchanga rate mechanism. To Labour's discomfort, Hans Tietmeyer, president of the Bundesbank, repeated this week that membership of ERM is a pre-condition for joining European economic

said Lord Chadlington. "If and monetary union. we cannot by then, wa will The majority of European Union governments and the European Commission share be engaged in crisis talks." Lord Chadlington admitted "a lack of qualified finanthis interpretation of the cial personnel" had deep-1992 Masstricht Treaty. ened the ROH's financial The issue is a political

minefield for Labour because the ERM is synonymous with the collapse of the former Conservative government's European policy in September 1992 when John Major, then prime minister, was forced to withdraw sterling from the currency grid along with the Italian lira. Labour's problem, says a Commission official, is that the public and the media conflate Emu with the ERM. People in Britain say: look what happened when we joined the ERM."

The Maastricht treaty requires countries seeking to ion Emp to meet criteria on inflation, interest rates, public deficits, government debt and exchange rate stability.

### Post-ERM picture of the economy Sterling against the D-Mark (DM per C) Sanks' base rate. % LIK exit from ERM

exchange rate stability is ambiguous. In protocol six, side article three, the treaty says La respect "the normal fluctua-tion margins" of the ERM without severe tensions for at least the last two years" before EU leaders decide which countries meet the entry criteria. The decision

is due on May 2, 1998. Labour, like its Conservaevents have overtaken the treaty because the old ERM died in August 1993. At that time a wave of currency speculation forced ministers to abandon the narrow fluctuation bands of 2.25 and 6

But the treaty language on "broad band" with 15 per acting in good faith, is that

Labour also argues that a member state should EU finance ministers have avoided taking a collective stand on the exchange rate criterion, thanks largely to pressure from Kenneth Clarke, who was chancellor of the exchequer in the Major government. In Verona, Italy, in spring 1996, Mr Clarke also secured an tive predecessor, argues that assurance that membership of a new ERM 2 governing relations between the euro and currencies ontside

would be voluntary. The difficulty for the British government, which is desperate to reassure other

cent fluctation margin either other Emu aspirants bave joined the ERM. Finland and Italy signed up in late 1996.

Another worry is the conduct of the Swedish government. Unlike Britain, Sweden has no treaty right to opt out of Emu. But Stockholm has arrogated itself this right on the grounds that public opinion will not support early Emu entry. The dilemma for the Commission is that Sweden fulfils all criteria for joining, barring ERM membership.

A convenient solution is to noint out that Sweden cannot become an Emu member because it is not a member

keep the ban in place.

"Britain, almost alone, is

shouldering a large measure

of the necessary restructur-

ing of beef production in

Europe," be said. UK slaugh-

ter schemes were removing

400,000 tonnes of beef from

that the question of ERM membership moves to centre stage. Labour's riposte is that the rest of the EU will be so relieved if Britain joins the single currency - on present planning in early 2002 after the next general election - that the ERM

question will fade away. As further insuranca Eddie George, governor of the Bank of England (the UK central bank), said this week the UK would pursue "a parallel track" to Euro zone countries in terms of monetary and fiscal policy, to convince EU partners the pound would not be a rogue currency outside Emu in spite of its recent volatility.

So what is the likely outcome of the ERM conundrum? Labour could argue that the new ERM is not a straitjacket hut a loose overcoat which could help Britain's path to convergence with the Emu bloc. Britain could join the ERM for a token period after establishing a new entry

But the general view is that no British government can ignore the provisions of the treaty, however positive the tone of its European

rate for sterling.

Lionel Barber

### per cent in favour of a European governments it is nient result for Britain is Minister attacks Brussels over beef ban

By Alison Maitland in London

"These are catastrophic Jack Cunningham, the UK agriculture minister, yesterproposals that would be infinitely more expensive," said day attacked the European Sir Jeremy Isaacs, former Commission for its slow progress in abandoning the export ban on British beef government wants more He told the House of Compeople to have access to opera, so bow can it justify mons agriculture committee his officials had been pressclosing down one opera ing the European Commission unrelentingly for prog-Paul Daniel, ENO music director, was also critical. ress on a scheme to allow limited exports of beef from "We are greatly concerned herds certified free of BSE,

that the proposed review or "mad cow disease".
"The ball is now in the into the use of Covent Garden could threaten our company's unique work," he court of the Commission," he said, "My officials have said. almost lived in Brussels for Editorial comment and the last six months. But we

Observer, Page 13 | can't control the timetable

The government is trying to build a agreement on the need for a cross-party "pro-European mainstream national consen- campaign to make Britain "less Eurosceptisus about the single currency", Gordon cal". Mr Brown said the Conservatives, the Brown, the chancellor of the exchequer, said last night, Robert Peston writes. He spoke after Tony Blair, the prime minister, and Paddy Ashdown, leader of the opposi-

and the cycle of meetings. I with his previously conciliaget rather irritated by the tory approach to Brussels some EU member states to

these committees to meet." The UK is waiting for the beef from certified berds initially only from Northern Ireland because the region has a computerised cattle tracing database.

The tone of Mr Cunningham's remarks contrasted it might be politically and concern at the pace of gov-

largest opposition party, had "failed to take on board" that the UK had embraced a pooling of political and economic sover-eignty in joining Nato and in backing the tion Liberal Democrat party, had reached creation of the European single market. economically coovenient for

length of time It takes for over lifting the ban. It appeared to reflect frustration at the lack of movement Commission to put a formal on the certified herd scheme proposal to end the ban on and the broader scheme to allow exports of cattle born since August 1996, when possession of contaminated

the market each year. feed, the likely source of BSE, became illegal. However, MPs on the agriculture committee expressed Mr Conningham suggested

selective cull - one of the European Union's pre-conditions for lifting the ban. The aim of the cull was to eliminate cattle most at risk of developing BSE because

cattle for slaughter in the

they could bave been exposed to the same feed as animals that died of the disease. Only 18,000 of 113,000 cattle to be slaughtered bave so far been traced. In addition, 40,000 have already been killed.

 One more person has died from the new variant of Creutzfeldt-Jakoh Disease, related to "mad cow disease", the Department of Health said yesterday. Figures for nvCJD cases show 21 deaths to September 30. EU protocols.

### 'Mistake' allowed Spain veto on border dispute

By John Kampfner. Chief Political Correspondent

The UK government admitted yesterday it had been misled into allowing Spain theoretical power to veto British membership of the Schengen agreement on open borders in the dispute over Gibraltar.

Robin Cook, foreign secretery, told MPs a "misunder-standing" had occurred in the fraught final stages of negotiations et the Amsterdam summit in the early hours of June 18.

Member states, apparently unknowingly, approved a Spanish amendment stipplating that late arrivals into the Schengen club - whose full members are Germany. France. Belginm, the Netherlands, Luxembourg, Spain and Portugal - would have to be accepted unanimously by other member states. Incorporation of the 1985 Schengen accord on part of the new treaty.

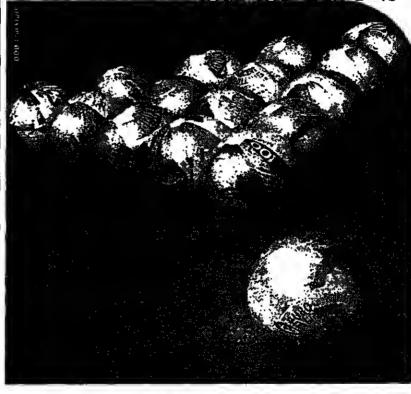
British and Irish negotiators had been under the impression that an original draft, making clear that such a move would require only qualified majority voting, would be included in the Amsterdam treaty.

Mr Cook told the foreign affairs committee of the Honse of Commons that the government had been dissatisfied with the "note-taking" of the presidency, then in Dutch hands, which had led to "different recollections of the text of what was said on the night".

He made clear, bowever, that the UK - which succeeded amid great difficulty in securing e legal right to jurisdiction over its own borders - had no intention of joining Schengen. Later on June 18. Tony Blair, the prime minister, sald Amsterdam had preserved Britain's right to opt in to

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**Edward Mortimer** 

# The black sheep

The EU keeps telling Turkey to pull its socks up, yet refuses to acknowledge it as part of the European family

🗑 he trouble with the European Union is that it is incapable strategic thought.

in Brussels, foreign policy planning is divided between the Commission and the Conneil Secretariat, which operate quite separately from each other. But hig foreign policy decisions are not taken in Brussels. They are the fruit of bargaining between niember states.

The example always quoted is the decision to recognise Croatia and Sloveoia in December 1991, accepted by Britain in return for German favours at Maastricht.

The decision to open membership talks with Cyprus next spring may come to he seen as a similar hlunder. Adopted in March t995 as a concession to Greece, in exchange for ment became sharper as forallowing the customs union with Turkey to go ahead. that decision was presented as an inducement to the two sion of Cyprus, under a communities in Cyprus to settle their long-standing conflict.

So far, alas, it has had the opposite effect. Rauf Denktash, the Turkisb Cypriot leader, bas given it as a reason for suspending talks with Glafcos Clerides, the Greek Cypriot president. who has strengthened his military ties with Greece aod ordered ground-to-air missiles from Russia. Turkey has threatened to prevent their deployment, due next year, hy force if necessary. In recent weeks there have been several near clashes between Greek and Turkish forces in the

On Monday the prime ministers of Greece and Turkey met and reaffirmed a joint statement of respect for each other's sovereignty, ruling out the use of force. But Issues of substance between the two countries remain unresolved.

The EU cannot be blamed

Turkish differences. But it inextricably involved in those problems when it decided, in the late 1970s, to admit Greece as a member state.

Turkey's elite, which believes stroogly in its European identity, missed a trick by not applying for EU membership at the same time. Of course Turkey could not have joined then. But faced with two applications, the EU would have had either to put off admitting Greece, or to reaffirm its intention of admitting Turkey in the future.

As it is, Greece has been able to use EU membership as a weapon in disputes with Turkey, while Turks have become increasingly resentful of the EU's unwillingness to treat them as a future member. That resentmer communist countries in central Europe elhowed their way ahead. The inclunurely Greek Cypriot government, is seen by most Turks as adding injury to

It need not he so. The Cyprus delegation in the talks could include Turkish Cypriots. The EU could Turkish Cypriot demands as part of the terms of entry. EU membership would in any case henefit Turkish Gypriots economically, It hould also give them security against renewed Greek Cypriot attacks auch as occurred in 1963. Some Turkish Cypriots would get jobs in the EU bureaucracy. and Turkisb would become an official EU language.

But none of that will hap-

pen unless Turkey and the Turkish Cypriots approach the process in an opportunistic apirit. At present their attitude is negative and resentful. They are Cyprus'a proposed EU membership as yet another trick won by Greece at their expense, and a new version of the old Greek demand for union between Cyprus and Greece. They are bound to see it that way so long as an EU including Greece seems set on keeping Turkey

No one believes Turkey is ready to join the EU tomorrow, though under the previous government Turkish diplomats used to irritate west European audiences by saying so. The new government of Mesut Yilmaz has recognised that Turkey



for the Cyprus conflict or Denktash; angered by EU concessions to Greece on Cyprus

for long-standing Greco- insist on concessions to must first put its own house in order, notably hy completing the modernisation of its economy, bringing inflation under control, and giving stronger guarantees of human rights.

A month ago Mr Yilmaz seemed to have won the backing of the German chancellor. After meeting the Turkisb prime minister on September 30, Helmnt Kohl issued a statement saying he firmly viewed Turkey as part of Europe and supported the goal of Turkish membership of the

Since then things have gone backwards. EU leaders continue to lecture Turkey on the need for improvements in buman rights, con cessions in Cyprus and moderation in the Aegean, but offer nothing concrete in exchange. Germany is still hlocking the idea, put forward by France, of including Turkey in an annual

European conference" of presect and future EU mem bers. This conference would hold its first meeting in London next February shortly before accession talks begin, thereby making it clear to those oot yet included in such discus that they are "pre-ins" rather than "outs"

The decision has to he taken at next month's Luxembourg summit, If Turkey is not invited to the proposed conference most Turks will conclude, reason ably enough, that the EU has no serious intention of ever admitting them. In that case they are hardly likely to be beloful or constructive over Cyprus.

The conference has been described as a "family photo" of the wider Europe. If its British hosts want to make a success of it, they must persuade other Euro peans to stop treating the Turks as gatecrashers. Instead they should be wel comed and encouraged, like wayward but promising cousins.

# ·LETTERS TO THE EDITOR.

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We are keen to encourage letters from readers around the world. Letters may be fixed to +44 171-873 \$338 (plaste set in to 'fine'). e.mail: letters.editor@fi.com Published letters are also available on the FT web site. http://www.Ff.com Translation may be available for letters written in the main international languages.

### Takeovers and a test of fairness

From Mr Roger Lyons. Sir, Alistair Defriez, the director-geoeral of the Takeover Panel, does not speak for everyone ("Brussels urged to end takeover law proposals". November 3). That the European Union legislation to regulate might contravene the principle of subsidiarity ignores the ben-

efits that such overdue regu-

lation could lend. The UK's voluntary code leads to more takeovers and mergers in the UK than the rest of the EU. There is no evidence that all of these benefit consumers, share-

holders, employees or society in the long term. They do earn the takeover consultancy industry a considerable and growing amount of income - at wbose expense? A statutory EU-wide code would democratise the merger process, and perhaps

come under the spotlight. even allowing for proper consultation with employee representatives, providing some test of fairness. MSF, as a union representing more than 400,000 skilled

dealings between hidders

and target companies may

and professional employees in industries and services significantly affected by mergers, is keen to see European legislation put in place which will protect the rights of those employees - in particular, their right to information and consultation in the run-up to a merger

The non-statutory code in the UK sets the panel outside and above the law. The UK courts generally refuse to intervene. Consequently, the rights of employees to consultation before mass redundancy announcements.

provided for by EU directive. are flagrantly breached, as in the case of Royal Sun Alliance when it announced 5,000 jobs would go on its creation. And the rights to consultation on strategic decisions, provided for in the European Works Council directive, is outrageously ignored, as in the Guinness-GrandMet merger.

first Guinness EWC meeting. Mario Monti, the single market commissioner, is seeking fairness: for companies facing unwelcome predators, for consumers, for employees, and for society at large. Roll on the proposed directive on takeover bids.

announced days after the

Roger Lyons, general secretary, MSF, 33-37 Moreland Street, London EC1V SBB, UK

around policies that engage

the interests of the whole

Europe, there is no alterna-

tive to active and positive

co-operation in the EU.

### Euro's effect on the dollar

From Mr Robert Solomon. Sir, Avinash Persaud's let-ler (October 31) about the euro's effect on the dollar's reserve status strikes me as both factually and analytically faulty. He claims that "euroland's" economy and exports will be significantly larger than those of the US. The latest issue of the flate. World Economic Outlook contains a table showing that in 1996 the US economy and its exports were slightly larger than those of the 15 European Union members excluding intra-EU exports as Mr Persaud also does).

He also argues that "if the dollar loses its reserve status to the euro" private portfolios would also shift out of dollars. First, the dollar is not going to "lose" its status as a reserve currency. At most, some countries will shift, probably gradually, to the euro. Second, there is no obvious connection between the currency preferences of monetary authorities, which are motivated partly by political considerations, and the decisions of private investors and institutions as

Robert Solomon 8502 W. Howell Road Retherda. Maryland 20817. US

### It is time to say - unequivocally - that in terms of to where they hold assets. the Conservative party's position oo the future of

UK certain to

be sidelined

### From Mr D. A. A. Fagandini. Sir. The uncertainty that the UK chancellor ended in regarding a British vote of confidence in continental

his Emu statement was that Europe's ability to manage a euro capable of withstanding the political pressures the Treasury expects to plague its early years. Taken with the decision to

Debi maile

provide only encouragement from the sidelines during that time, this will ensure that we will be left there when the hard work to establish the single currency has been done. There may be no De Gaulle to deny us an entry permit whenever we do ask for one, but there most probably will be a formidable European Greenoan uttering "Nein" in Frankfurt.

D. A. A. Fagandini. 6 Alleyn Park, London SE21 8AE, UK

### Tories: no alternative to co-operation

before, and a "mobile"

From Mr Jonathan Labrey. Sir. It is important to point oot that pro-Europeans in the Conservative party are not pursuing William Hague in the same vindictive and uncoutb manner that "Eurosceptics" attacked John Major. Rather, we are seeking to influence a policy that is fundamentally out of tune with (increasingly) the instincts and interests of the

British people. The two groups of people that Conservatives will depend on for their future as a party capable of government are young people and the business community. Young people are culturally more sophisticated than ever Europe is certainly not unthinkable with the explosion of husiness and language courses that are on offer - and oversubscribed in colleges and universities across the country. The business community responds to the potential economic benefits of European co-operation that will result in job creation and increased investment

Euro-scepticism has never won a general election in the past and it is even less likely to do so in the future. Mr Hague's appeal to the British people will ultimately rest. on his ability to unite his party - and the country -

Around that policy, the party has united (and won) for a generation. Jonathan Labrey.

national organiser. Conservative Group for Europe. c/o Conservative Central Office. 32 Smith Square, Westminster SW1P 3HH, UK

### No fresh start in a flawed Pearl of Africa to go to impartial interna-

From Mr Salim Thobami and Mr Azim Amlani. Sir, We read with great

interest the article by Khozem Merchant ("Come on home, we need you". October 18-19) about the renewed welcome for Asian investors in Uganda, There was a similar campaign in 1991 when the government of Uganda, in conjunction with the World Bank, invited us and many other Asians to esentations in London and Kampala about the opportunities to return to business in Uganda.

We were convinced that a new start was to be made

and invested considerable funds on the government's assurance that, if any dispute arose, it would be set-tled impartially by the World Bank's centre for the settlement of investment disputes. We learned, to our cost, that things had not changed. The promised investment incentives were never granted and in 1996 our investment was seized by ageots of the government without any recourse to any legal of administrative procedures laid down in the law. We

has refused to allow our case

were warned not to return to Uganda. The government

tional settlement by the World Bank or otherwise. Those attracted by the new campaign would be pru dent to ascertain the

commitment of Uganda to such impartial international tribunals. Uganda is, indeed. the Pearl of Africa, but presi dent Yoweri Museveni and his ministers have much work to do before that pearl can again appear without

Salim Thobani and Azim Amlani. Kingsgate Place, London NW6 4JH, UK

### Personal View • **Gerhard Schröder**

# Reforming the German model

Germany has to price itself back into the world market in order to stay ahead

German sociexposed - as in all countries - to dramatic change. There is intense global competition for capital, goods and services. Labour markets are aubject to unprece-

dented international pressures. Protecting local markets through national policies is virtually But provided Germany

makes the necessary changes, the so-called "Ger-man model" - which combines a productive economy with an integrated and peaceful society - can main-tain lts superlority over other successful systems. The key to the future is to encourage and support entrepreneurial spirit and practice everywhere in Germany. My aim is to improve and speed up the capacity of our economy to adapt and innovate. That ambition is at the heart of any modernisation strategy.

Significant parts of the I want to finance German economy have been lagging hehind international WOIK, not competitors. The only way to make use of new opportuni-ties is to give up past practices. We need courage and An acceptable readiness to take risks. We leadership that is not exhausted by muddling Can go through with old policies.

my policies for Germany. We want Europe to realise its With a fall in potential as the world's largest and most successful marketplace. It is no coincidence that social democracy has again become Europe's

from the inability of neoconservative dogma to produce s society that is efficient and st peacs with

Democratic politicians must not abdicate before market forces, blind to ths social consequences. Down that road lies inequality and social polarisation, as well as a threat to our democracy and prosperity.

As far as monetary union is concerned, the single currency must be introduced, at the right tims after the agreed convergence criteria have been fulfilled. This must form a step towards a genuine economic and political union. Monetary union must also be part of a European offensive to create jobs. in Germany, our solid industrial base and our capacity for social conse are enormous benefits. But there are undoubted shortcomings. More than 4.5m people out of work, together with their families, are paying the price of insufficient

economic flexibility. With market-oriented incentives we can hring about a genuine renaissance of the social market economy that will stimulate productivity and use resources

unemployment. also need a credible political minimum income Europe has a vital part in hand-in-hand

unemployment

driving political force. Too more effectively. Germany will earn the right to grants many people have suffered can draw on immense. Along with tax breaks resources, not least its citizens' high level of training and part-time work, I want and innovative talent.

These fnndamental strengths will he at risk unless radical measures are taken to reform Germany's economic and social structures. But we cannot make the necessary adjustments purely hy reducing employment and social standards In the US, and in Britain too, we ses social erosion hardly the right way to bring about a modern economy and integrated society.

For all these reasons we must find a new framework to allow the German labour market to function better People will demonstrate mobility and flexibility only if they are sure that their hasic living conditions are not under threat. We must give them a reliable set of parameters to enable them to take on new risks.

Lowering lahour costs forms one of the main methods of making entrepreneurial activity attractive again and at improving Germany's position as a place for investment. Labour has been made too costly. I favour lowering lahour costs, particularly for less skilled people at the bot-tom end of the pay scale, My aim is to accomplish this by cuts in income tax and by shifting part of the financing of social security away from companies and workers and towards general taxation

I want to finance work, not unemployment. A socially acceptable minimum income can go hand-in-hand with a fall in unemployment. For a transition period, my goal is to channsl some funds used for unemploy. ment assistance into wage and income subsidies. Flexible methods are necessary to price people into jobs. Where they take on unemployed employment, businesses paras

Along with tax breaks favouring low-wage groups to bring in a negative income tax to provide transitional income payments up to the level needed for family subslatence. Similar methods are needed to adapt working time, for instance for those nearing pensionable age. The cost of subsidies can be offset by using existing legislation to cut benefit claimant abuse. Over the medium term, these measures can be expected to produce a fall in the johless total of around 2m.

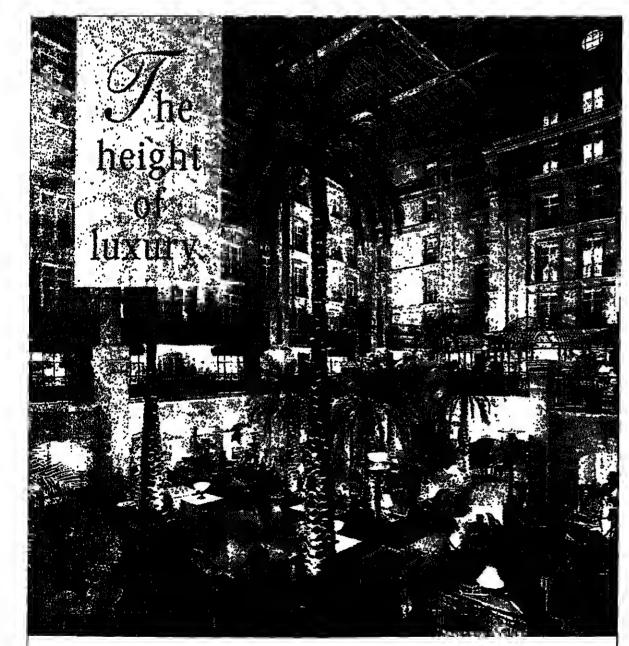
As a further step towards economic revival, taxes on entreprenential activity must be cut, and flows of capital towards businesa ahould be stimulated through tax incentives.

At the same time new businesses and small companies are frequently starved of the capital they need. All too often, young businesses look to foreign sources of finance, causing migration of knowhow and jobs. We need a proper market for

risk and equity capital. In 15 years, only half those employed in the German economy will benefit from a secure full-time job. As far as retirement benefits are concerned, employees must continue to benefit from a basic state pension, but they must also rely more on their own resources hy investing in the capital stock of the

economy Radical reform across all sections of economy and society is the only way of safeguarding Germany's accomplishments. Fear of change will set us back. I prefer to embrace change and go forward

The author is prime minister of Lower Saxony and economic policy spokesman of people and add to existing Germany's Social Democratic



People who appreciate the finer things in life feel at home in The Landmark London. In part, it is the visual magnificence of this graceful five star hotel, symbolised by the soaring eight storey high atrium, that attracts them. Yet, from guest bedrooms that are amongst the most spacious in London In the imaginatively prepared cuisine served in each of its three restaurants, The Landmark displays a sivile that strikes a chord with people who, in matters of taste, do out believe io compromise.

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SUMMIT

AS INDIVIDUAL AS YOU ARE

ا مكذا من الاحل

### FINANCIAL TIMES

Number One Southwark Bridge, London SE1 9HL Tel: +44 171-873 3000 Telex: 922186 Fax: +44 171-407 5700 Wednesday November 5 1997

# Mr Trichet and the ECB

The French decision to but for Europe as a whole. nominate s Frenchman to be the first head of the European pean institution. It exists to Central Bank was hardly a sur- serve wider European interests, prise. The name of the nominee not those of two countries. Jean-Claude Trichet, hesd of the Banque de France, was just a little less predictable, given his past clashes with President Jscques Chirac. But that an action is predictable does not make it

Mr Tricbet is heing nominated to replace the Dutchman, Wim Duisenberg, head of the European Monetary Institute, the precursor of the ECB. Having lost to the Germans in all the other arguments over economic and monetary union, French amour propre demands a victory. That means putting a Frenchman at the top.

Mr Trichet is a qualified candidate. As architect of the franc fort policy of the past one and a half decades, his orthodoxy is impeccable. But so is Mr Duisenberg's. Mr Trichet has the technical skills. But so does Mr Duisenberg. Mr Trichet might lack the political arts needed to convey the ECB's message to doubtful Europeans. But so, too, might Mr Duisenberg.

The fundamental issue, however, is not wbether Mr Trichet whether it is sensible to put him in the job. For him to achieve the position as the result of a French power play or a bilateral deal between Germany and France could be had, not just for the European Central Bank, the pascent institution.

The ECB is, after all, a Euro-

One of the advantages of a candidate from a small country is that his ability to serve the wider intsrest is credible, because the alternative, of serv ing his own country's, is obvi-ously not. This general precase, by the importance France attaches to having a Frenchman in the position. A natural assumption is that the candi-date is expected to do what Paris wants. This does not need to be true for it to damage the ECB's credibility. The damage could be particularly severe in Germany itself, where euroscepticism is rife.

No less harmful is the notion that Germany might accept Mr Trichet in bilateral horse trading. Such an arrangement to change an apparently agreed candidate by the EU's two most important countries would hlight the institution's legitimacy everywhere else.

The interests of Europe demand that the head of the ECB be acceptable to the largest possible number of countries is a suitable candidate, but and be appointed in the most open possible manner. In this light, a belated attempt hy France to persuade Germany to ditch Mr Duisenberg for Mr Trichet could seriously damage the credibility and legitimacy of

## Debt roulette

emerging market bonds since nervy, speculative investors, the middle of last month has left investors and investment banks nursing big losses. A

Participants knew they were since competitors were also doing it they kept on.

Both banks and investors around the world have also been borrowing cheap to lend at much higher rates in different currencies. This risky habit, which investment banks call proprietary trading, has been particularly marked in Russia's volatile local currency markets. Investors from South Korea, for example, are said by traders to have been boosting lacklustre profits by investing in Russia. hond price collapse is as yet Investors in Latin America have been borrowing in yen to invest in Brazilian and Mexican local currency markets.

The flight to quality in emerging market bonds in the international markets over the last two weeks is thus just the tip of the iceberg. The reason that the risk spreads have risen so dramatically is that the marked change in market conditions the ability of some borrowers to tional investors is simple: if you meet future commitments. Such can, kick the habit.

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tend to overwhelm longer-term improvements in credit.

hitherto profitable game has now is whether the market colgone badly wrong.

Earnings in Wall Street and round of the old game of leverthe City of London have been age and rising bond prices to buoyed by holding speculative begin again from the new, lower bonds and letting prices rise. base; or whether there has been a fundamental change in the carrying too much risk, but market and new strategies are demanded

> bonds was driven by abundant global liquidity. There is no strong evidence, apart from the modest rise in US and German has radically changed. If this is the main factor, then emerging market bond prices may soon begin to climb.

and investment banks by the unknown. Large amounts of maturing debt - much of it in local currencies, is due to be rolled over in the months ahead. Investors' willingness or reluctance - to do this will reveal how serious the damage has been to the creditworthi ness of emerging market bor rowers. In the meantime, the lesson for governments and other borrowers who are over has raised new questions about dependent on volatile interna-

The onestion for investors

Clearly, the bull market in interest rates, that this picture

However, the full extent of

the damage done to investors

# Curtain call

Chris Smith, the UK's minister And there is certainly a case to of culture, media and sport be examined for separating the descended with a clash of thunder on Monday to propose a resolution of the turbulent affairs of London's opera companies.

The Royal Opera House, now running headlong towards insolvency, has been leaderless throughout the summer. It grossly mismanaged the first part of its exile while its building is being refurbished.

Meanwhile, the English National Opera (more nearly the "people's opera") is also leaderiess and in debt. And it wants more cash to revamp its splendid but dilapidated home, the London Coliseum. After Dennis Marks, the ENO's general director, resigned suddenly in September the company's plans to settle its debts were left in limbo.

Something must be done. Mr Smith's idea, which acems to have sprung fully formed from the back of an envelope, is to put the two companies together under one roof in the opera house building. Management of artistic companies would be separated from management of the

premises Mr Smith has wisely given Sir Richard Eyre, former artistic director of the Royal National Theatre, a fairly open brief as chairman of an inquiry into this operatic mess. The inquiry is bound to consider a long overdue reform of the royal opera. tragedy.

husiness and artistic manage

It would be a pity, bowever, if the ENO were sucked into the maelstrom created by the royal opera's mismanagement and so lost its distinctive vision: acres sible modern repertory. After losing its way in recent years the company has shown signs of being rejuvenated under a new music director, Paul Daniel.

If the two opera companies shared one building, there might be strong pressures before long to merge them starting no doubt with the two large orchestras. The alterna tive would be a much increased touring programme. But taking opera to the regions is expensive and logistically difficult, especially if international stars

Sir Richard, therefore, faces a daunting task in his search for a solution which will preserve the ENO's distinctive style and yet make radical improvements in the economics and manage-

ment of big opera. A big shake-up may well be needed. But the worst outcome would be a real life version of Ariadne auf Naxos, the opera in which the great man lost patience with two competing companies of entertainers and simply ordered them to play alternate scenes, comedy and

# Empires can strike back

Turmoil in Asian markets may act as a wake-up call to overseas Chinese business groups, say John Ridding and James Kynge

STREETH OF THE PROPERTY OF THE

he currency crises and economic npheavals that have buffeted south-east Asia since July have dabunked the myth of an Asian exception. There was an amazing mindset that Asia was not subject to the same rules," says Paul Krugman, professor of economics at MIT. If Asia's "miracle" is volnerable to economic shocks, what of its individual corporations? Is it also time to write off the big companies spawned by rapid growth and. In particular, the emptres run by overseas Chinese families that dominate business in the

Companies were already being confronted with challenges to their strategies and success because of deregulation and probreversal will increase such corporate pressures: their most immediate worries now are the storms of devaluation, deteriorating regional growth and tumbling stock markets.

For the most part, overseas Chinese companies are not competitive in a globalised world," says Ronnie Chan, the secondgeneration chairman of Hang Lung Development, a Hong Kong property developer.

Many companies have been bit during the economic turmoil, including Malaysia's MBf group, the rapidly growing financial services company that suffered a two-day run on its branches by depositors. With its exposure to Malaysia's troubled real estate sector, investment analysts believe the group will be forced to curh its overseas expansion plans, such as its banking and credit card operations in Thailand and Indonesia.

Great Eagle, the Hong Kong tages of the overseas Chinese developer, was forced to cancel a husiness groups. "Strong per-HK\$1.8bo (\$234m) rights issue sonal contacts and short lines of last month because of the stockmarket fall. First Pacific, the conglomerate controlled by Indonesla's Salim group, has warned that regional problems will hurt 1997 profits, largely because of provisions against currency losses.

There is the short-term uncerenduring problems from the crisis," says the chief executive of group. Among the most serious concerns, be cites tighter bank credit and weak stock markets, which will restrict expansion plans; depressed property sectors, the foundation of many regional business groups; and reduced demand in home markets. "We have always built ont from domestic bastions," be says. "Now they are being shaken."

Beyond these sudden shakes lie enduring weaknesses. "Most owner-managed companies, particularly in Asia, are like thunderstorms," says Edward Kangas, chairman of Deloitte Touche Tohmatsu, the accountants. "They build quickly but perish as fast."

Family-based ownership and control limits management expertise and presents succession difficulties. Since patriarchs and their relations are often reluctant to loosen their grip, it also obstructs expansion. There is very little delegation

of-responsibility, even to the sons," says Mr Chan at Hang Lung. "If the old man says go right, you go right." Such weaknesses have tradi- and they are prepared to deletionally been offset by the advangate," says Victor Fung, chair-medium-sized companies bave own state-owned conglomerates

command allow companies to act fast and seize opportunities," says Cheng Wai-keung, chairman of Wing Tai, the Singapore-based property and textiles group. In industries from property to shipping, that remains a

strength. But shifts in the world tainty, then there are more economy are exposing the weaknesses of many Asian groups. The value added is increasingly one overseas Chinese trading in technology and in brands," says one Singapore-based management consultant. "And I can count on the fingers of one hand, the number of south-east Asian husinesses that are strong in those areas." While not every increased competition and undermined local franchises.

> bility of a lot of these family- nese businesses are emerging. owned businesses," he says. "Talk of the Asian century is a joke. If Asla doesn't have strong, defendable companies, how can it be a strong region?"

The answer lies in adjustments being made by many overseas Chinese groups. "The good old days are gone, and competition has intensified," says Mr Cheng at Wing Tai. "But many overseas Chinese groups are adapting, and this crisis is a wake-up call." Among the most important shifts is the development of professional management. "There is a new generation of MBA sons

man of Li & Fung, one of Hong Kong's oldest trading groups, His company was one of the first to tackle the web of family ownership and management, launching a complex restructuring followed hy a management buyout in 1989.

Even the biggest taipans who retain management control and ownership give lieutenants room to manoeuvre. "Li Ka-shing (who controls two of Hong Kong's biggest companies) sets the strategic direction, but he lets top executives get on with it," says one former group executive. Ha cites the free hand given to John Meredith at Butchison International Terminals, Mr Li's ports division. Mr Li's ports, which span from Felixstowe in the UK to Shanghai company has to be a global and Panama, also show that player, he adds, home bases are Asian bustness leaders can build threatened by deregulation and multinationals. Critics argue liberalisation which has such expansion is a rare success among several failures, such as Rabbit, the UK telecommunica-For Mr Chan, the implications tions operation. But more cases are bleak. "I do question the via-

> "A lot of Hong Kong and southeast Asian companies are pioneers in distribution technology." says Mr Fung, referring to the process of co-ordinating the production and supply of consumer products "An item which costs a dollar when it leaves the factory ends up four dollars at retail. If you work on the manufacturing end of the equation you can bang your head against the wall trying to shave off 15 cents. We focus on the 'soft' three dollars." Many former manufacturing groups are moving down a similar path. About 40 per cent of

operations in more than two locations, sourcing and supplying for consumer goods companies. Small distribution multinationals have also emerged in Taiwan and the Asean economies.

Devaluation will give such entrepreneurs a sharper edge in whether they succeed depends on continued evolution.

or the bigger overseas Chinese companies, the conglomerates that spread from property to finance and infrastructure, turmoil at bome may be offset by openings in China. Mr Cheng at Wing Tai predicts that robust growth on the mainland, combined with Beijing's shift towards privatisation, will lead to s new wave of activity in China by overseas Chinese

These businesses still bold advantages in the mainland market. "New World from Hong Kong or Robert Kuok's Kerry Group can repeat in China what they have been doing across south-east Asia," says the manag ing director of one Hong Kong investment bank. "It provides a wbole new canvas for them, where the old networks and methods still apply."

Here, too, strategies require adjustment. "It could be a mistake to assume that overseas Chinese will still bave the inside edge in China," says the Hong Kong-based Political & Economic Risk Consultancy. Apart from western multinationals moving Into the Chinese market, the con-Hong Kong's 300,000 small and sultancy cites the rise of China's as potential rivals. C.P. Pokpband, for instance, the Thai-based conglomerate, has run into tough competition in its mainland motorcycle business as local rivals have increased production.

Part of the response appears to be a wave of new alliances international markets. But between the overseas Chinese and mainland business groups. In June, China Resources, the business arm of China's Ministry of Foreign Trade and Economic Co-operation, paid HK\$580m for an 8 per cent stake in a financial services arm of Indonesia's Lippo Group. That division then sold a stake to Beijing Enterprises, the

commercial arm of the capital's

municipal government

Li Ka-shing and other Hong Kong tycoons have taken stakes in mainland companies, such as CNAC, the commercial arm of China's aviation regulator. Even some Taiwanese businesses are pursuing a similar path. Citic Beijing, China's flagship investment vehicle, recently became a shareholder in KG Investments, a Hong Kong-based bank founded

"Overseas Chinese and mainland Chinese. That is the next phase in the Asian business networks," says the managing director of an overseas Chinese bank Like macroeconomic reforms, he believes, this process may be accelerated by the regional downturn.

Along with management reforms and the new breed of distribution companies, expansion in mainland China could help guarantee survival of the overseas Chinese empires It may even herald a new and stronger

# · OBSERVER

### Regal Robertson

■ British defence secretary George Robertson, recently heard complaining he's the forgotten man of politics. yesterday got his big chance to make amends. Playing the British monarch, no less.

In Moscow for a bear him with Russian military types, Robertson assumed the role of Queen Elizabeth to bestow an honorary knighthood on Antonina Koneva, 74-year-old widow of late Red Army marshal Ivan Konev.

During a ceremony in the gilded halls of the British Embassy, just across the river from the Kremlin, Koney became only the third Soviet way have to be becomed by. Britain for exploits in the second world war. The marshal died in 1973, but

30 years earlier he had . commanded the steppe front at the battle of Kursk - which put paid to Hitler's eastern offensive in what the Russians call "the Great Patriotic War", Koney then drove the Germans back to the Vistula - and eventually shared the bonour of capturing Berlin with Marshal Zhukov.

While Zhukov was honoured by King George VI; Koney had to make do with posthumous recognition because the cold war and decades of tradition to

got in the way, "I think he ... would be really satisfied and

### Articulated

W Pete Camarata clearly likes the whiff of battle and life on the barricades. The US Teamsters Union organiser is in Europe this week and nians to make time to seek out striking French truckers and give his support.

behind the wheel of a truck before devoting his life to union matters, has been telling like-minded lefties about this ... summer's dust-up between the Teamsters and the UPS delivery service. The dispute is already being bailed in international socialist circles as a proud victory which stands as a beacon

Camarata, who spent 28 years!

for the old way of resolving industrial problems. But Camarata, sounding only ever so-slightly disappointed. reckons there's not much for him to teach the French. "They look pretty well organised," says the Detroit-born trucker who's not afraid to mix it.

Mortified

Mice steady business, burying people. No shortage of customers (though space is another matter)

ensure the ceremonial barely changes when it comes to saying goodbye.

Nothing much, that is, until the Americans turn up to say differently. Hence the dirt flying in the British funeral market now some of the biggest North American players have crossed the Atlantic to try and take business from the army of independent undertakers.

A campaign for fair funeral practices has been busy raising cash to see off a threat to the traditional British way of despatch by stopping "the commercial onslaught" of foreign-owned conglomerates who say an industry shake-up is long overdue.

There's particular alarm at the increasing strength of US Inneral specialist Service Corporation International(SCI) Serving the World one Family at a Time" - which arrived three years ago; other foreign players include the Canadian Loewen Group and American specialist Stewart Enterprises. "Unfair practices" from the newcomers are alleged to include aggressive marketing and soliciting for business at nursing homes and

hospitals. But now SCI, which undertook 500,000 funerals worldwide last year, is trying to take the high ground, drawing up regulatory proposals which could involve a funeral industry commission to register and police undertakers.

In the meantime, SCI bas broken new ground by launching a television campaign to persuade the Brits to embrace the American way of death. The Princess Diana has set minds racing about the best way to go Now, the largest UK undertaker fight-back in the new year.

Looks like a fight to the death.

### Vintage

Edmond de Rothschild, the wealthy head of the Swiss branch of the finance dynasty who died on Monday, may have been best known for his banking interests. After fleeing his native Paris with his father in 1940 during the Vichy regime, be built up extensive private banking and other investment interests from the luxurious Chatean de Pregny near Geneva. He remained a Swiss resident

But Observer hears be chose as his final resting place a site symbolic of his more recent diversification into the

wine-growing husiness. He let it be known that he wants to return to both his Galfic and Jewish roots, opting for hurial at Chateau Clarke, a large and well run cru bourgeois in Bordeaux that he bought in 1972; It's since become a leading producer of kosher wine.

### Financial Jimes

### 100 years ago American Markets

The market in Wall Street is still depressed. In the forenoon, rumours of the dangerous illness of President Havemeyer led to a bear drive on American Sugar Refining. that be was doing well somewhat. Rails were steady during the morning. At noon. there was a general bear drive, which established the lowest quotations reached recently; but there was a distinct tendency upwards before the end of this session. and though the list showed on balance a decline nearly throughout, the changes were mainly fractional.

### 50 years ago

London Market For Tea? The advantages of re-establishing London as a market for Indian and Ceylon tea were stressed by Mr H. Eric Miller, chairman of Harrisons and Crostield, at the meeting yesterday. He said there was no doubt that. in the foreseeable future, the best place to market the vest quantities of tea consumed in the United Kingdom, was London, where blenders could pick and choose in open competition, as they used to, the qualities they need in order to make up their standard blends.

# FINANCIAL TIMES

Wednesday November 5 1997



# US looks at 'carrot and stick' approach to trade with China

The Republican-led US Congress yesterday began to consider legislation that could end the yearly congressional battle over China's trade status with the introduction of a "carrot and stick" approach to

The approach is intended to nudge China to enter the World Trade Organisation on terms commercially acceptable to the US and European Union. or the US would impose new tariffs on Chinese goods.

The legislation, introduced by Congressmen Doug Bereuter of Nebraska and Thomas Ewing of Illinois, is an attempt to deal with the US trade defiso far this year. The proposal has drawn support from mem-

The legislation recognises that the annual battle over China's Most Favoured Nation trading status does little but hurt the US business community, when outraged Chinese officials give contracts to competitors in Europe and Japan. Congress needs a two-thirds vote to overturn a US presi-

dent's decision to favour MFN - and that did not happen even in the aftermath of Tiananmen Square. "China's leaders ignore Congress's annual threat to revoke MFN because they know we will not imposa such Draco-

nian tariffs on US imports."

said Mr Bereuter, Without

MFN tariffs would average 44

The legislation would give the president six months to the Uruguay Round of world

did not feel China was offering acceptable market openings. he would have to announce tariff increases. Tariffs would be imposed six months later allowing time for negotiations.

The administration bas sought accession to the WTO for China in the bope that the US would make gains once Beijing had to abide by international trade rules. However, congressmen said yesterday that China's offers have been "woefully inadequate" in the 20 "working party" meetings

held in Geneva. The legislation, said Mr Bereuter, would require China to make an acceptable offer to join the WTO or face 4-7 per cent tariffs, which were in effect before the conclusion of

the WTO. If at that point he global trade group it would immediately get MFN status which would give it the same tariff levels as other members. Legislation to give China

permanent MFN was introduced in the Senate by Bill Roth, chairman of the Senate finance committee, during the visit last week of Jiang Zemin, China's president, to Washing-

However, Congress is unlikely to grant this favour, in view of the trade deficit, without getting assurances that China's market will open sooner rather than later.

In a hearing yesterday of the international trade sub-committee, objections raised to the proposal centred on doubts that the administration could

### THE LEX COLUMN

# Together at last

Although lacking the drama of Krupp'a aborted hostile bid for Thyssen, yesterday's merger agreement signals a change of pace in the restructuring of corporate Germany. By creating Germany's sixth largest industrial company by sales, this merger will necessitate others as competitors attempt to match Krupp/Thyssen's global reach and market power. With their steel activities already in joint ventures, the real impact will be felt in the material handling, machine tool and automotive sectors.

The deal will also provide the emplate for future ones; after the ignominious retreat of Gerhard Cromme, Krupp's chief executive. in March it is clear that hostile hids are close to verboten. This is especially true of those that have not been approved by unions and politicians. This now amicable marriage will serve as a showcase for the supposedly rancour-free German method of merger accounting the exchange ratio of the merging companies' shares is determined by independent auditors based on forecast cashflows.

There are however, no obvious corporatist solutions to the question of who will be boss. Mr Cromme, who successfully prosecuted the merger between Krupp and Hoesch, is preferable to Dieter Vogel, Thyssen'a cautious chief executive, but may yet pay the price for his earlier audacity. And with a deserved reputation as the most aggressive rationaliser in Germany, Mr Cromme would almost certainly extract more than the conservative DM450m (\$255.6m) of savings the companies have so far projected. But then he may find the unions have tied his hands.

US media

A decade of restructuring has turned the North American media industry into an oligopoly. Between them, Walt Disney, Time Warner, News Corporation, Seagram and Viacom control much of the production and distribution of news and entertainment. And following a flurry of deals, all five are now largely strategically complete. To date, investors have had little

cause to cheer. Overpriced acquisitions, too much debt and poor management have produced horrible share performances. Even Disney has barely kept pace with the US years. The others have underper-formed by between 25 and 60 per its natural freedom to pick and

German industrials Share prices relative to the Dax index

cent, with Viacom at the rear. Perhaps it is time for a reappraisal. All the companies have turned their faces against further big purchases. And with much of the heavy investment behind them, they should start to generate enough cash internally to make inroads into their horrowings and begin rewarding investors. Encouragingly, Time Warner, Disney and News Corp have all said recently that they would pay down more debt and start (or step up) repurchasing shares. The positive rerating of cable companies this year, which has helped Time Warner's shares. shows how these industries can swing in and out of fashion. If the media groups can succeed in squeezing more out of their assets by milking their brands and exploit-

ing the benefits of owning both dis-

tribution and content, they too will

deserve another look.

Is it a disaster that Barclays has failed to persuade Credit Suisse First Boston to take on all BZW's businesses? Well, no and yes. In one sense, excluding BZW's Australia, Asia Pacific and equity derivatives businesses from the sale is no big problem. In Australia in particular, BZW's business is strong. Very likely, other buyers can be found without too much difficulty; arguahly, splitting the BZW busin between different huyers might even make sense.

But look at it another way and CSFB's decision merely underlines the awfulness of Barclays' negotiastock market over the past three ting position. As sole bidder left in

press its advantage as the "exclusive discussions" proceed. The price, when it finally emerges, will surely be a depressing one.

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One can debate how far Barclays' bandling of the sale is to blame Part, probably, is down to the decision to go for such a public auction process. But the more important son is that a second-rank investment banking business is considerahly harder to sell than most thought. Plainly, that reflects horribly on the huge investment the UK clearing banks have lovingly poured into these operations. National Westminster, certainly, cannot afford to feel smug. What price NatWest Markets?

Marks and Spencer

After years of vacillation, Marks and Spencer is finally pushing the boat out. Whether it be store size, product range or geography, the message is of relentless expansion. The timing is opportunistic - assets in continental Europe look cheap right now. But it is also a case of making a virtue of necessity: single digit earnings growth, despite strong demand, is sub-standard for a premier retailer. Yet, as the disappointing results of the food division show, domestic competition is too stiff for more of the same to suffice

as a strategic response.

The global dimension is the most interesting. Global retailers are in conspicuously short supply. And there is certainly no precedent for a high volume, focused department store succeeding. Yet M&S's confidence in going down this route is not misplaced. It has a powerful brand, with proven international potential, and the further advantage of a distinctive format. The patient acquisition of superior properties has been another necessary ingredient of success.

Patience, of course, is something investors will now be called on to display. The price of a step-change in ambition will be a higher risk profile, and another year or two of subdued earnings growth. Only then will the rewards start coming through. It is a trade-off worth making, and will underpin M&S's premium reputation. But while long-term shareholders should be sured, a 30 per cent premium to the market makes it look an expensive thne to be buying.

Additional Lex on Cookson.

# Thai markets soar as premier quits

By Ted Bardacke in Bangkok

Thailand's financial markets soared yesterday, welcoming the announcement by Chavalit Yongchaiyudh that his resignation as prime minister would be effective from midnight tomorrow.

Investors shrugged off failed attempts by the country's main political parties to reach agreement on a new prime minister or a new coalition.

Analysts said a delay increased chances that the opposition Democrat party, backed by several prominent and popular economists and bankers, would take charge of the government later in the

Bt38.60 and the stock market measures. Prem Tinsulanonda, rose 6.9 per cent.

"That politics had been a big negative for the market. Now it's only a small negative." said James Landi, vice-president of broker Vickers Ballas.

Analysts said the markets were also heartened by yesterday's cabinet decision to make an additional Bt29bn (\$708m) in budget cuts and raise revenue by Btl1bn by increasing vehicle excise taxes and improving tax collection. Together with Bt4hn in increased contributions from state enterprises, the move should help Thailand meet International Monetary Fund fiscal targets.

a former prime minister and privy councillor, did not respond to an offer to lead the current six-party coalition. Chatichai Choonhavan,

leader of Chart Pattana, the coalition's second largest party, said he did not want the toh, as did a number of other senior figures who were approached, including Thaksin Shinawatra, the deputy prime minister and telecommunications tycoon. But coalition leaders tried to remain united. "No one wants to be out of

power hut no one wants to take ultimate responsibility and be prime minister," said an Asian diplomat. Leaders of Chart Pattana

against the dollar to close at who would implement the have entered negotiations with the Democrat party, which is demanding that Chuan Leekpai, its leader, be given the premiership and control of most of the cabinet.

Democrat party officials said they were in no rush to take over, preferring to let government parties come to them with offers when they were unable to find a leader.

We have a strong enough team to halt the slide to the economy. We're not trying to duck it," said Akapol Sorasuchart, a Democrat MP. "But we have to be sure we can conduct our economic policies."

> Telecom sell-off, Page 6 Currencies, Page 23 World stocks, Page 34

### Yahoo IPO storms Japanese markets

Continued from Page 1

58 per cent.

hecause it was only estabcal year of earnings. Assuming against Y33m last year. the company's forecast earn-

ings per share to be accurate. from 1.1m daily page views services company, which holds near Y400,000, he said.

Yahoo Japan provides Japa-Takehiro Kanazawa, an ana-lyst at Yamaichi Research of charge and derives the bulk Institute, said it was difficult of its revenues from advertisto evaluate Yahoo Japan ing. It forecasts recurring profhas reported only one full fis- profits are forecast at Y70m Traffic on its site has grown

the shares should be trading year ago to 4.46m in Septem her. The company expects internet services in Japan to catch up with the pace of growth seen in the US within

two years. The listing of Yahoo Japan high level of debt

its of Y140m in the year to will not have a significant struggling against negative sentiment due in part to its

their positions - at least in

public - in response to the

Jospin told to get tough on truck strikers of the small hanlage compa- talks. For their part, the drivers' unions have hardened

> militant mood among members, who have indicated they will not pull back until they extract more concessions. Among these are premium payments still owed from the 1996 strike.

> Additional reporting by David White in Madrid and Gordon Cramb in Amsterdam.

# Krupp to link

are based.

lowed by talks on merging the ests. These were completed at the beginning of September was established, with Thyssen per cent of the equity.

The two group's stainless steel interests had been merged earlier in Krupp Thyssen Nirosta, in which Krupp has 60 per cent. A full merger has had local political and trade union backing.

The chief executive of the dates. Terms of the merger will have to await a formal valuation of the two companies.

# with Thyssen

Continued from Page 1.

Rhine Westphalia, the German state in which both companies However, it was quickly fol-

when Thyssen Krupp Stahl the dominant partner with 60

new group is expected to be chosen at the end of this month with Mr Cruimse and Dieter Vogel, chief executive of Thyssen, as the two candi-

Communist transport minister, is due to begin another attempt today to get all the

Continued from Page 1

Yesterday the largest associhad accepted an invitation to meet the minister, began to drag its heels. Only late in the day did it agree to a meeting today. Unostra, the federation

**Europe today** 

Spain and Portugal will have heavy rain with the risk of local flooding, although the extreme east of Spain may stay dry. The central

Mediterranean will be unsettled with showers breaking out over Italy and southern Greece. Northern Greece

and Turkey will be dry and bright.

Eastern Europe will stay mostly dry

dominate but the north-east will be

cold with sub-zero temperatures. Central and north-western Europe

will be mainly cloudy with outbre

of rain. In Scandinavia the rain will be preceded by snow, but

conditions will turn milder from the

Central and western Europe and the western Mediterranean will stay very unsettled with rain or showers. It will also become windy, with northern France at risk from gales over the weekend. Eastern Europe will

Five-day forecast

south.

as high pressure continues to

parties in the conflict talking around a table. ation of hauliers, UFT, which

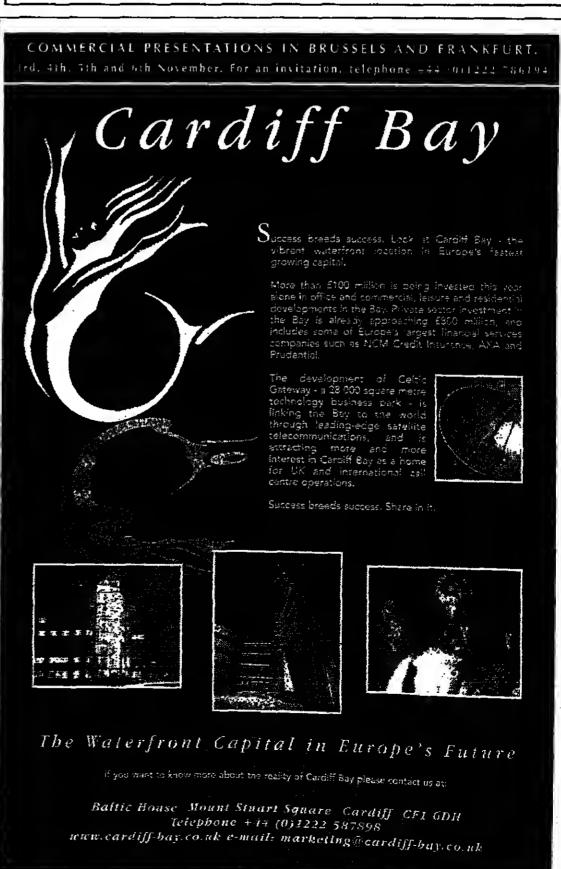
endorsed on Saturday.

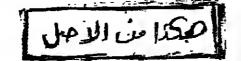
nies, warned its colleagues among the large haulage groups its members could not improve on the offer they This envisaged an immedi-

ate 5 per cent pay increase and about 20 per cent over three years. However, the UFT and its umbrella federation, PNTR, rejected this deal even before it was concluded last week and walked out of the

### FT WEATHER GUIDE

as high p	milder but m ressure mov	es eastwa	rda.	Warm from		cold front	Wind	apeed in KPI			
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\$24.17 \$22.05 \$23.89

\$23.60 \$23.36 \$23.01 \$22.74

\$20.06

\$18.85 \$17.40

\$13.79

Wages for manufacturing workers

\$ per hour

Belgium

Portugal

Greece France

Spain

Czach Republic

Suitzerland

# EUROPEAN BUSINESS LOCATIONS

Inward investors have the pick of the whole continent. Michael Cassell reports

# Competing to charm new foreign suitors

he European-wide UK, with other jobs also struggle to benefit springing up among supplier from the wave of companies. The scale is such inward investment atill rolling across the continent day. Throughout the European Union (EU) and, increasingly, in those countries to the east, the critical contribution of inward foreign investment has never been more acutely appreciated and more sought after.

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The result is an unprecedented effort at national, regional and local levels to put in place strategies and systems to maximise the full potential of incoming investment funds, whether they are intended for manufacturing, distribution, or the provision of a range of customer and marketing services.

The largest inward investment decisions can provide thousands of badly needed jobs and, of equal importance, revive the fortunes and confidence of entire economic regions. When companies such as America's United Technologies choose to build a new \$1bn semiconductor fabrication factory in Hungary, or South Korean group LG Electronics decides to develop a \$3bn semi-conductor plant in south Wales, extensive and profound knock-on effects can be felt in a community.

Electronics has recruited more than 6,000

that concerns have been expressed about the impact is getting tougher by the on the local labour market there are fears of job poach-

> When a company with the clont and size of Toyota announces that it is looking for a European site to build a new small car but hasn't yet chosen the location, the process of courtship by eager suitors is inevitably frenzied. After Toyota decided to build a plant at Burnaston in the UK, the company made clear that the availability of aid was not a factor. This time, however, it is understood to be planning to take advantage of financial assistance where it is offered.

> At the heart of the EU, Brussels attempts to ensure that the levels of prevailing financial help are uniformly applied. Only in the assisted areas is there supposed to be real room for discretion. But there has been mounting concern about the degree of "local interpretation", with tax incentives, in particular, proving more complicated than grant aid to quantify and monitor. The European Commission

has already blocked a number of state aid packages offered to companies in Germany and France and has gone as far as to demand repayment of some funds



picion surrounding some deals arouses interest not only in Brussels but also at the myriad inward investment agencies fighting to win their share of available

The rivalry is not confined to cross-border battles. With so many areas and regions in each country anxious to attract outside investment, competition can also be fierce. There are fears within many central governments that such competition is becoming counter-productive. In the UK, the Department of Trade and Industry (DTI) is drafting a "concordat" between England, Scotland and Wales, intended to ensure that financial assistance remains within common UK guidelines.

The move has been made are poaching projects and job creation project in the already made available. Sus- jobs by putting together UK continues to hold on to newly created jobs have also seen some nervousness competitors for investment serve its markets.

more attractive aid pack-

Sir Colin Marshall, chairman of British Airways and of London First Centre, the inward investment agency, last month called on the goverriment to introduce a code of practice to stop regions out-bidding escb other to win over foreign investors.

One suggestion is that the

centrally negotiating large

Feelings are running high. At the end of last month, David Rowe-Beddoe, chairman of the Welsh Development Agency (WDA), denied suggestions that the WDA had itself over-bid other regional development agencies in its attempt to win inward investment. He emphasised that agreed aid limits were set by the UK and by the commission and that these were scrupulously

adhered to. in response to complaints from the English regions DTI takes responsibility for that the development agencies in Wales and Scotland inward investments. But

the top position in terms of already been revised total EU inward investment. upwards. A joh creation tar-Despite some fears that the momentum might be show-

remains unbeaten. Some areas of the UK that may previously have lagged behind in attracting mobile investment are now implementing programmes yield-ing positive results. The sonth-east corner of the country, for example, is seen as one region that has not made the most of its beneficial location in respect of mainland Europe.

the nation's performance in

attracting the greatest vol-ume and most broadly based

foreign business investment

Initiatives such as Locate in Kent, only started earlier this year, are now taking steps to remedy a previously lacklustre regional performance. Robert Ashmead, Locate in Kent's chief executive, says projections for the whatever the problems, the number of investments and

get of 1,500 in the first year of operation has been raised ing signs of slowing down, to more than 2,000.

The entire framework sur-

rounding the machinery of UK inward investment is now caught up in the government's proposals to establish nine new regional developmant agencies across England in 1999. The plan is to provide a more coherent approach to economic regional development, in which inward investment plays a critical part. How the existing inward investment agencies fit in to the new strategy remains to be worked through, although there is an expectation that they will become less marketing-driven and more

focused on delivery. The hope is that the national effort will not be disrupted while any new arrangements are put into effect. Recent months have

UK : E 3 20 513.63 Norway \$12.49 \$12.17 W 1 38.61 \$5.20 \_\_\_ \$2.00 Finiend \$1.64 Turkey \$1.40 B \$1.13 among UK-based businesses about the prospect for main- Europe. In the last year, taining UK operations in the event that the country fails

to sign up for monetary union. Reported remarks by General Motors' group economist that the company's commitment to the UK would be reduced if the country failed to join Emu were quickly played down. But the incident could be a precursor to more serious doubts among some companies over the UK's continuing attractiveness as a business location if it remains outside Emu. "Some potential investors

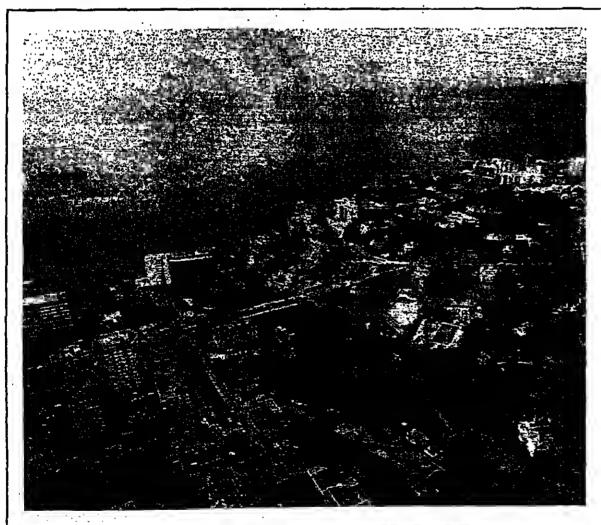
are already mentioning Emu as an issne," says David Rees, director of economics at accountants Ernst & Young. "Over time it will bave a psychological impact on potential investors and may influence things at the margins of decision-making. But if Europe's main markets are within Emu, then the reality is that business will see more uncertainties

operating from outside in terms of costs and returns." Countries such as the UK will, in any case, have their relatively risk-free and comwork cut out fending off petitive base from which to

from central and eastern there bas been a further increase in the number of mobile investment projects heading eastwards. Improving infrastructure, low labour costs and a readiness to demonstrate workforce flexibility are all belping to overcome the lingering sus picions among investors about putting down plant in countries which, until recently, knew little of west-

ern business methods, These countries, too, are beginning to marshal available resources and to mount marketing campaigns to attract investors who, even five years ago, would not have given them a second look. Now locations such as Poland. Hungary and the Czech Republic are notching up significant investments and are on the look-out for

The international business community will respond positively if it believes its suitors are being increasingly drawn into a broadening European community which can simultaneously offer a



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### **2 EUROPEAN BUSINESS LOCATIONS**

Company	Location	Orlgin ·	Exports	June 1997 Activity
Federal Express	France	US	198	New Suppose Super Histo completing a world-wide network
DEGSA	France	South Korea	400	New factory to produce glass bulbs
Molex Grasifi	Germany	Switzerland	100	New textiles logistics centre
Advanced Micro Dev		US	967	New semiconductor fabrication factory and research centre (start up 1999)
Action Oper AG	Potend	US	313	More car assembly plant producing family car based on Opel/validati Asing faurt up 1999
Intel	Ireland	US	1,500	New plant manufacturing microchips
Hendett Packard	tretered	US	. 160 .	Expension of plant manufacturing inject cartridges for primare
Seagate Technology		US	800	New factory manufacturing disk drives
Dannoo Romana	Romania	South Korea	850	New car production lines producing Esparo, Cleto and Text insleganting jobs
Celylan		Turkey/Japan/US	1,000	Plane to set up a joint integrated textile plant
	Torkey Jepa	n/South Kores 19	ficey 180.,	New car production plant
Rover Group	UK	Germany	640	New hi-tach engine plant
Jaguar	THE STATE OF THE S	US	640	Expansion at our plant to produce new model \$290
LG Electronics	UK	South Korea	3,300	New water febrication unit producing 8 and 12 inch fabs (commerced construction)
Hyundai	<b>三二三條</b> (1)	South Korea	3.800	Annie mieuting factiers - 20 August - 20 A
Nissan	UK .	2 state	322	Expansion of existing car manufacturing plant
Seagate Technology		US.	160	Expension in studies of computer cask offices
Short Brothers Aeros		Canada	283	Two new aircraft manufacturing programmes over the next 5 years (Caradak regional jet and Hayland Dash.
Huelon Corp		Tapment		New teather production disk
Toyota	· UK	Japan :	. 330	Production of latest Corolla car at existing sole European plant

SHARED SERVICE CENTRES • by Michael Cassell

### that shares wins The company

The centralisation of support services can cut costs and improve efficiency

Perhaps the most striking response by business to the need to make support activities more efficient has been the recent explosion in the growth of pan-European

the rapid spread of so-called SSCs as companies seek to reduce their cost bases through economies of scale, improve their customer service performance and required to adapt to changing market conditions.

A wide and growing range of traditionally back-office activities intended to serve disparate business units and

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multinational companies are setting

up business in our country. After all,

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us on the man.

Location specialists are locations is being transferred to the shared service centre. These activities can include everything from telemarketing and hilling to purchasing and general account-

ing and from fleet management to legal and achieve the flexibility audit services. Increasingly, companies are planning to include other core proces such as research and development, product development and marketing in the

Whather a business is expanding into a new region its existing arrangements is reatructuring its looking to resolve a series of operations, the SSC is issues, including failure to operate effectively at a increasingly recognised as an effective model to overregional or global level and come unnecessary and insufficient focus on core potentially costly dnplica-

tion. It can result in more The shared service concept effective use of expensive technology, a sharing of infrastructure costs and the need for fewer managers. According to accountants Ernst & Young, a business in

locations. Call centres for European operations are increasingly cosmopolitan: callers in Spain can ring a ocal number and be answered by a Spaniard speaking from the Nether-

The Irish Republic, the UK and the Netherlands are currently proving the most popular EU locations for call centres. One estimate suggests that 20,000 such centres are already in operation in Europe and that this number is set to quadruple within the next three years. Some call centres already employ 1,000 people and in the UK alone around 200,000

people now work in them. in comparison, the num-Europe in the past two to three years - remain modest. They are, however, set to expand significantly as companies realise that the concept of rationalisation need not be confined to production process

Among the big corpo names that have adopted shared service centre techniques are Unisys, McDonald's, Laura Ashley, Coca-Cola. American Express and Kodak. Despite the fact that the cost of establishing a central service facility can be extremely high, companies that have taken the decision report fast pay-back in terms of improved efficiency.

Costs alone, however, are not considered to be sufficient reason for establishing a shared service operation. Much of the emphasis is being placed on the provision of improved customer services; in theory, at least, the concentration of employees providing a range of back-up services from a singla location can result in improved management information, a valuable team culture and, in turn, improved customer focus.

At present, most shared service centres are created for the use of one company. But facilities capable of being shared by a series of corporate customers dubbed "third party" centres - are now increasingly likely. Beyond that, the centres may extend their horizons to serve companies not just across Europe but around the world.

has been developing alongside the spread of multilingual call centres, which are also intended to reduce overbeads and are driven by improved technology and the availability of lower-cost

plaints from competing loca-Brussels, as part of a long, hard look at state aids, is The true version is that

INCENTIVES • by Michael Cassell

# Rough passage to level playing field

The success of EU attempts to standardise aid for investors has been limited

The role of financial incentives in helping companies on the move to choose a home is always embroiled in controversy. Virtually every government in Europe is prepared to put up cash and the volume of funds spent on the mission to lure foreign employers has been rising over the past decade.

Invariably, each new announcement about a significant inward investment is accompanied by complaints from the losing competition about the high costper-job equation struck to snatch the prize.

The truth is that, despite some success at EU level in standardising grant payments across the community, wide variations in incentives still exist.

As a result, Brussels has become increasingly concerned about tha apparent "flexibility" of grant aid at ground level. A number of state-sided projects in Germany and Franca have been blocked and repayment of funds has been demanded. One company moving from nark to Ireland on the back of large incentives has provoked a number of com-

attention to the role of tax more and more impre incentives in determining location decisions. Tax benefits can be considerably more complicated - and less easily identifiable - than grant aid, and moves are afoot to get them better co-

ordinated from the centre. The French government. for years reluctant to join the struggle to compete for inward investors, earlier this year announced a reorganisation of its effort to boost the number of incoming companies. It has already claimed some modest success, citing the use of regional development funds to create employment at a cost-per-job of little more than £4,000.

In south Wales, in contrast, the South Korean electronics giant LG has decided to build a plant that will reportedly attract grants equivalent to £30,000 a job.

However, even with the existence of such attractive financial carrots, most relocation experts emphasise that incentives should never be of paramount importance when it comes to making the final decision on location. LG itself insisted that incentives had belped, but that other factors were equally important.

Wilfried Vossen of the consultants Price Waterhouse-Plant Location International. says that the incentives picture is complex and not necessarily what it seems: "The official version is that incentives become less important.

"Many regions terms of real impact on cash flow amount to 50 per cent while still respecting the official EU position."

Mr Vossen uses an anomy mous but genuine recent example of the extent to which the official position on incentives can bear little relation to the full extent of financial help made available. He cites an investmen project in which the official figure for aid granted amounted to \$15.6m but the actual amount of money handed over to the company involved was \$33,8m. The essential difference lies in \$24.9m of aid provided though not in a publicly identifiable way - in the form of lower land costs, site

equipment and loans. As a result, the EU limit on the project of 25 per cent towards costs was compre hensively exceeded, the total assistance package representing just under 55 per cent of project expenditure.

It is clear from such exam ples that any company considering a move or a relocation cannot afford to miss the opportunity for a thorough appraisal of the range of available incentive pack

A cash hand-out from the state may not prove the most decisive factor but to ignore the possibility of significant financial assistance is tantamount to corporate

IRELAND • by John Murray Brown

# The Irish solution bers employed in shared service centres - which have only started to spread across

low corporate tax rates survive the scrutiny of Brussels?

Ireland's success as a business location is such that it is now attracting the attentions of the European Commission's competition authorities.

The issue of the Irisb Republic's low rate of corporation tax - one of its main attractions for foreign investors - is currently part of a much wider debate in Brussels over the use of unfair tax competition.

Ireland offers a 10 per cent rate for manufacturing and traded services and a similar rate for financial services in Dublin's docklands area.

This policy runs until 2010. To provide some certainty for foreign investors, the Fianna Fail-led government has said it will progressively reduce the standard corporate tax rate, currently 38 per cent (86 per cent for small businesses) to a uniform rate of 12.5 per cent by

But as part of discussions on a code of conduct to curb the predatory tax practices of some member states, Mario Monti, the commissioner in charge of the European single market, has indicated he would like to see irish rates move much closer to EU norms. Charlie McCreevy, the Irish finance minister, is said to have

show Dablin's concern, he and the enterprise and to Brussels in early October.

Ireland's main defence is that - with only a few exceptions - the Irish tax regime has not led to the closure of ses in other member countries. Indeed, the greatest interest has come from US companies, which now constitute 80 per cent of Ireland's total inward investment stock.

In the electronics sector, for example, Ireland now accounts for 40 per cent of European Union investment by US computer companies. US pharmaceuticals, healthcare\_and telephone-based services companies have also set up in large numbers.

The low-tax regime is an important consideration for high-turnover, fast-growth companies - particularly those that are publicly quoted and depend on their after-tax earnings figures to attract investors. There have been persistent allegations that the Irish government has allowed multinationals to use transfer pricing to

inflate their Irish operations. Some local economists allege the multinationals overstate the turnover, so as to be able to source more of their global activity to a lowtax location and reduce their domestic tax charge. The Irish authorities dis-

Can the country's been incensed by this. To pute the charges. They also argue that tax is no longer the single most important employment minister, Mary determinant, They point to Harney, led a beavyweight the availability of an negotiating team, which increasingly skilled workincluded the head of the for-eign investment authority, rates, and the "proactive" approach of the authorities to the investors' needs.

Certainly, the workforce has been a big attraction for the low-wage, relatively lowskill teleservices sector, which, long-established in the US, is now taking root in Europe. Businesses are taking advantage of the advances in telecommunications to use a relatively remote location - Ireland to centralise back-office operations.

Computer companies such as Dell and Gateway have set up telephone-based support services for their European PC sales operation in ireland. Compaq, the world's largest PC company, has recently announced a similar investment. Hotel and airline companies have set up booking and reservation

Time differences with the US are often an advantage. US-based health insurance companies, for example, pro-cess claims in Irish time that are then ready for the following day's work in the US.

Some of the most encouraging aspects of Ireland's foreign investment drive are spin-offs for domestic Irishowned industry. The Irish software sector, for example, has grown at a phenon rate in recent years.

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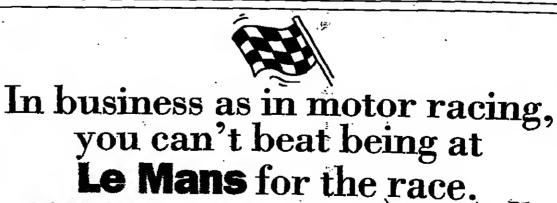
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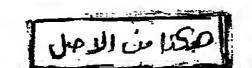
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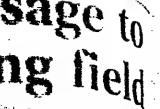
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UNITED KINGDOM • by Michael Cassell

# abour pains?

Fears that the new government would deter investors have

been calmed The UK has, for many years, attracted the lion's share of inward investment into the European Union. And despite some scentics believing that the UK may finally find the going tougher, the success story seems set to

continue. in the year to April 1997. the UK government recorded 483 new inward projects, taking around 40 per cent of all ioward .manufacturiog expenditure and achieving a record inflow for the third successive year.

The new investments putting the UK second-only to the US as a recipient of inward investment in the developed world - created nearly 50,000 jobs. It also brought to more than £150bn the value of the nation's cumulative stock of foreignowned projects.

The record was set under a Conservative administration that had prided itself on its ability to engineer a change in the economic and business climate that had foreign investors queuing up to make the UK their most favoured manufacturing

location for serving European Union markets.

The big question was whether a change of government might change every-thing else. True, the Labour party presented itself as a more optimistic and supportive member of the EU, and its strategy of being at the heart of European affairs held attractions for companies anxious to do business. Labour's conversion to a

business-friendly party, nevertheless, was widely seen as less than entirely convincing and, given its commitment to the social chapter and the potential resurgenca of union power, there was at least the danger that some would-be investors might have been put off. Prior to the election of

May this year, shadow ministers made strenuous efforts to stress their support for an active programme to boost inward investment. Six months on, any fears that the first change in gov-

ernment in 18 years might result in the investment tap being turned off. Figures from the accountancy firm Ernst & Young, which analyses inward investment projects into Europe, reveal that the inflow into the UK actually rose in the period immediately after Labour's victory.

The figures maintain a EU markets, are now being

nattern whereby almost onethird of Britain's manufaccountry. turing productivity growth

lighted when four French

companies collectively

announced they were mov-

operations to the UK in

order to ensure their sur-

vival. They were led by Oliv-

ter Cadic, head of electronics

company Info Elec, which

opened in Ashford. Kent

immediately after the gen-

eral election. Mr Cadic cited

big differences between the

two countries in local busi-

ing some business

over the past decade can be attributed to the impact of new production and management techniques introduced regional development agen-Earlier in 1997, the sort of cles in England factors which have helped make the UK a magnet for

Proactive inward investment programmes will be among the new agencies main responsibilities, though the extent of their authority and the scale of their budgets is yet to be detailed. There have already been

warnings that while bealthy regional competition is to be welcomed, fierce competitive hidding for inward investment could ultimately prove nationally counter-produc-

studied elsewhere across the Competition for investment has been intense and another shake-up is due with the government's plans to establish nine powerful

ation, with Hungary and the Czech Republic also winning places. Collectively, the former communist nations took be anything unusual in a an impressive 18 per cent of the recorded 371 inward projects. In a separate list of 40 significant investments over

nesses beve been long enough established to take

second-stage investments

marily to serve local mar-

kets and involved basic

activities such as bottling

WINNERS AND LOSERS . by Michael Cassell

turing plant in Europe; or in General Motors' allocation of another \$300m to a new car assembly plant to help serve the European market. But when Matsushita decides to locate in the Czech Republic and General Motors opts for Poland, then it becomes clear that the pattern of preference among manufacturers seeking to operate in an expanding Europe is dramat-

Countries in

ically shifting. With each new inward Investment decision announced during 1997, previously favoured locations for investment across the continent have been served a powerful reminder of the strength of competition they now face in winning over companies capable of bringing prosperity and jobs to their own patch.

Now, after years of predictions about the potential held nut by low-wage but high-skilled economies in ceotral Europe, countries which even a decade ago were incapable of offering a stable and sophisticated environment for business are achieving succe

In a chart compiled by accountants Ernst & Young (see left) of the top 12 most attractive inward investment locations across the continent during the first six months of 1997, the UK took

poll position, followed by the serving businesses. There is Republic of Ireland, Ger- also a psychological change many and France. But in under way, as more and fifth place came Poland, folmore companies are seen to lowed by the Russian Federmove in and make a success of it." The process will inevitably be given added impetus as countries line up to join the EU.

Some potential investors.

bowever, bave not baen

unduly impressed with the

level of support extended to

the eastern part of the coun-

the same period, more than them by the state-backed agencies supposedly on hand one quarter were located in the Czech Republic, Hunto belp. One manufacturing gary, Poland, Romania and investor complains: "The problem appears to be that Slovakia. Many of the projects were some countries are importing their expertise from the modest in value terms though they may clearly west; the trouble is they are lead to larger investments in attracting recruits who have the next phase of corporate proved second-rate at home. expansing. Included in the One encouraging factor, companies which this year bowever, is the lack of evihave put down investments dence that many significant in central Europe are United inward investments are fail-Technologies, Vnlkswagen ing. Some projects in Russia have foundered but the gen-Daewoo and IBM. Some busi-

while others, encouraged by imise the potential downside the "pioneering" of their but offer the chance of furcompetitors, are now moving ther expansion. Perhans more surprising is in for the first time. Germany's ability to take a According to David Rees. respectable share of inward director of economics at Ernst & Young, there bas investment, given its notoriously high social costs and been a marked increase in the number of mobile investthe underlying threat they ments going to central and pose to competitiveness. The eastern Europe. "Such picture may well be disinvestments used to be pritorted, however, by the con-

and food manufacturing. The effort also has to be Now much of the activity is kept in perspective in comintended to serve western parison to the external European markets." investment activities of Ger-Mr Rees adds: "Increasing man companies. In the first oumbers of companies are half of this year, 89 signifitaking advantage of lower cant inward investment prolabour costs and improving jects into Germany were infrastructures capable of recorded, against 133 pro-

A new pattern emerges jacts announced elsewhere in Europe by German companies.

Germany also shares the dubious bonour of being placed at the top of the league of European countries which appear most vulnerable in terms of losing manufacturing business to other countries. Ernst & Young has looked closely at which countries out of 23 from across Europe are most vulnerable to an outward migration of business.

According to the accountants, Germany, where the country'e engineering federation has been predicting a large outflow of engineering companies unable to withstand high local costs, is bracketed with locations such as Belgium. Switzerland, Austria, Sweden and Italy in terms of maximum vulnerability.

In some danger of losing eral picture appears to be investment to the competition is France, although the one of modest and cautious initial investments that mincountry has been making strenuous efforts to improve its sbare of the total EU investment cake. At the other end of the scale, coun-tries such as Poland, Hungary, Ireland and the UK are seen as showing restilence against competition.

There is some variation in chosen destinations between the distribution, customer services and manufacturing tinuing inflow of projects to sectors. The UK emerges as the most popular location in all three sectors. Germany and France do well in attracting customers service and marketing operations and io distribution, while Poland, France, the Republic of Ireland, Hungary and the Russian Federatioo attract a significant share of manufacturing investment.



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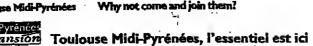
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**GERMANY** • by Peter Marsh

# Attracted by German capability

High costs are offset by a large home market and highly skilled workers

Four years of struggle is at smell of success for the German division of Bell Flavor and Fragrance, one of the world's higgest makers of specialised products for the food, cosmetics and beverage industries.

Based in the US, the family-owned Bell hit on Leipzig as the location for its first European plant. In 1993 it took over a company called Schimmel, East Germany's biggest maker of flavourings and scented products in the days of communism.

Counting the cost of the acquisition, Bell has injected nearly DM30m into Schimmel, a company which was founded in 1829 and which has developed a strong reputation for scientific ingenuity - 80 years ago it produced a Nobel prize winning chemist. According to Raymond Heinz, president of Bell's German operations. the investment is paying off: the venture moved into profit earlier this year.

Output from the 120-person plant is about \$15m a year, most of it based on formulations devised in the US which are then "customised"

purchasers - roughly half of which are in Germany.
"It took us some time to

pick up speed," says Mr Heinz. "Employees here they had had to contend for years with the most meagre last producing the sweet resources. The investment was like giving an artist a Bell's experience mirrors

some of the problems and the potential rewards of investing in the former communist eastern part of Germany, It also highlights some of the wider challenges faced by companies looking at the whole of Germany as a site for industrial activity. According to Christoph Maier-Rothe, head of European operations management at Arthur D. Little, the US-based consultancy, most investment decisions in Germany are inevitably influenced by the country's high

inflexible labour markets. But these factors can be countered by more positive aspects - such as the high level of training in Germany and the consequent adaptability of the workforce to new skills-intensive work procedures using, for instance, large degrees of

wage costs and relatively

automation. Germany's undeniable position as Europe'a higgest economy - with large indus-



and Heinz and management at Bell Flavors and Fragrance near Leipzig

cars and chemicals - also make it an attractive place for suppliers to these sectors irrespective of the country's

The need for market access is often the most important factor governing where companies decide to set np." says Mr Maier-

certain kinds of industries, seeking to tap this market potential, may gain from choosing Germany as a production or marketing base, while others almost certainly will not.

"If you want to do flow skilled] assembly, don't go to Germany," advises Mr Heinz of Bell. "The industries that will benefit are those that use intellectual capital to turn out goods of high added tries in fields as diverse as value in plants that are has also expressed satisfac-

likely to be heavily comput-

IMI, the British engineering company, followed this advice, stepping up its German activities in the past two years hy acquiring two leading valve makers - Heimeier and Herion - for a total of £216m. The companies respectively make prod-From this it follows that ucts for central heating and pneumatic control.

> "Despite its problems, Germany is one of the biggest markets in the world," says Gary Allen, IMI's chief executive. "And both the companies we've bought havs snperh products and do extremely good research and development. We are learning a lot from them."

Guardian Industries, a US company that is one of the world's biggest glass makers,

tion at its recent foray into Germany. Last year, the company opened a DM270m plant in Bitterfeld, eastern Germany - its first in the country and its seventh in Europe. It chose the eastern

part of the country mainly to

supply glass to companies

participating in the post-uni-

fication building boom. The Bitterfeld plant employs 270 people and operates round the clock, 365 days a year, Fernand Stirn, operations manager at the plant, says some things about Germany concern him - such as high energy prices and taxes and the costs of labour regulations. But he has "no problems" about the skill and flexibility of his workforce. Productivity there has been about the

EASTERN EUROPE . Anthony Robinson

# A mutual need developing

satellites are enjoying strong levels of foreign investment

When the Nazis razed Warsaw to the ground after the doomed rising of August 1944, the city hall with its bell tower and baroque elegance was among the archi-tectural casualties. Over half century later, builders have just put the last tiles on the sloping roof and the last lick of cream paint on the faithfully reconstructed replica. It stands as a gleaming symbol of the Polish capitalist renaissance on Theatre Square, just across the road from the opera house.

When it re-opens, however, it will no longer be home to the city's bureaucrats, housing instead the central European regional headquarters for New Yorkhased Citibank, which financed its reconstruction. Across town in Three Crosses Square, the Dutch ING group is also building a new regional centre opposite the squat grey building that used to house the commnnist central planning com-

The two new buildings are the most eloquent symbols of Poland's extraordinary transformation from communist-era basket case in 1989 to one of Europe's fastest growing economies. It is a turnaround which led to a surge in foreign investment and a construction hoom which has created a raft of modern office blocks, banks and shopping centres.

The main question now is new coalition government. in which Leszek Balcerowicz is deputy prime minister and finance minister, will lead to the faster privatisation and pension reforms promised. If so, Poland could boost growth through attractive policies which would stimulate domestic savings and

investment, and attract more foreign investment. Mr Balcerowicz was the snccessful macro-economic stabilisation plan. This laid try's entreprenaurial and dynamic economy. The omens, therefore, are good. But even before the elections, the outgoing socialist government had earmarked some of the higgest state companies - such as Polska Miedz, the copper combine, and Polish telecoms - for privatisation as well as several banks, led by Bank Han-

broad consensus behind faster privatisation means that Warsaw's attraction, both as the hub of a 39m strong Polish market and regional centre, for rising trade and investment is bound to grow. But so to will that of several provincial cities which had declined

Baltic port cities, such as Szczscin and Gdansk, for example, are home to a growing number of German and Scandinavian companies which either trade or produce relatively low cost consumer products for the nearby German market. Ber lin, for example, is much bet-

The former Soviet ter served by Szczecin, for merty Stettin, than by distant Hamburg, thanks to the Kaiser's canals and railways and Hitler's autobahn. Wroclaw, the former Breslau, is another western Polish city which has attracted a slew of foreign investors, including Cadhury's, Cargill and several other consumer

goods companies. Looking further ahead, the former textile city of Lodz is experiencing a revival which can only be strengthened by its position at the crossroads of the planned north-south and east-west motorways, a traffic system which will transform communications throughout the region when finally completed in the early decades of the next

Meanwhile, Hungary is raising its profile again after a tough 30 months of economic and financial austerity. Budapest's squeeze has been accompanied by an unprecedentedly fast and thorough cash-privatisation programme which bas helped push total foreign investment in this compact country of only 10m people to more than \$16bn.

Hungary can now call itself a base for 80 per cent of the top 50 global companies, as well as their state of the art factories producing cars, components, electronics, print-work, light bulbs by the million and many other products. Exports to the EU and, increasingly, to regional markets in the Central European Free Trade Area (CEFTA) have transformed job prospects and the balance of payments.

Warsaw and Budapest are on the up, along with whether the formation of a Moscow, which has been transformed into a huzzing business metropolis by Yuri Luzhkov, its energetic mayor. But Prague, for all its beroone charm, has suffered as a place to do business from the Czech government's failure to push through structural reforms.

Refurbished and glistening. Prague remains a wonderful place for a romantic weekend, although less so in architect of Poland's first winter when it is often cold, damp and smoggy. Only very recently, however, has the fact that the Czech Republic desperately needs foreign investors to make its banks and enterprises competitive in the unforgiving

global market. Apart from Volkswagen. with its huge investment in Skoda, most international companies retain a modest

lic, if any at all. This could change as the government and Czechinvest, its inward their efforts to woo Japanese and other Asian investors. as well as US and EU-bases

Czech wages are alreedy relatively high, however, and the 1993 divorce from Slovakia leaves the republic with a small domestic market of around 10m.

Czech companies retain a strong, but declining, presence in Slovakia. Whose revival is spearheaded by the busy mayor of the beautifully restored capital, Bra-

HALICE IN WE

Only 60kms from Vienna. Bratislava has few direct international flights but is well served by Vienna airport and is linked to the European motorway system which now extends to Budapest. The Slovak government is investing heavily in better road and rail facilities to improve internal communications which many Slovaks believe were neglected under the former Czechoslovak federal arrangement.

increasingly, companies involved in trade with western Ukraine use Kosice, the now revitalised capital of eestern Slovakia as a base. Kosice is home to the country's export-orientated VSZ steel complex and several of downstream engineering and ancillary plants formerly geared to trading with the

Meanwhile, the economic fortunes of Bulgaria and Romania have been transformed over the last six to pine months, putting Sofia and Bucharest back on the business locations' map. The ousting of neo-communist regimes in both countries has been followed by the inauguration of actively probusiness, pro-foreign investment governments with strong popular backing for the market-based reforms needed to close the vawning income gap with the rest of Europe and gear up for eventual inclusion in the EU.

With the Caspian Sea region likely to develop as one of the biggest new sources of oil and gas in the are also flocking to the Romanian Black Sea port of Constanta and the Bulgarian ports of Varna and Burgas. All are positioning them selves to profit from the huge expansion of crossgy-related trade, the first signs of which are already to be seen on the bustling quays and busy harbours.



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Software at work Sales and marketing: Sifting through the data mountain Pages 16-17

# Information Technology

Wednesday November 5 1997

With up to 100m users already, the ever-expanding Internet is suffering from its own success. Now, in a never-ending game of catch-up, telecommunications groups are investing huge sums to upgrade the Internet's backbone infrastructure, reports Paul Taylor

# The need for speed

lane - at best, it is an excruciatingly slow and painful process.

Similarly, the World Wide Web bas been dubbed the "world wide wait" by users frustrated by the time It takes to download images

Congestion on the information tant." superhighway is such that some electronic page requests are making as many as 50 'hops' between a user's computer and a target web site contributing to delays of up to five seconds in response

These problems and the lack of mid- or broadband services have already stunted the development of some multimedia-intensivs Internet applications and threaten to further delay the widespread use of the net by con-sumers for services as electronic shopping and digital telephony.

For business users, insufficient ser-bandwidth means delays, reduced flexibility.

Some of the current bandwidth constraints reflect the deficiencies in the Internet's infrastructure which has been cobbled together over the past 30 years from a disparate collection of hetrogeneous networks.

In part, the Internet is also sufthe number of Interpet users, now estimated at between 60m and 100m, and the size of files being transferred over the Interof Internet gridlock.

Even text-based e-mail, once the bread-and-butter traffic of the issed commercial opportunities Internet, is being replaced by enhanced e-mail files with sound, photographic and even video

avigating the Internet when it was OK to send memos. using a dial-up modem to a time when just because of has been compared to the speed at which things haptrying to drive a dou- pen, we need more 'high-touch' ble-decker bus down a country and less low-tech applications," says Tom Cooper of ATML, a California-based specialist in Asychronous Transfer Mode (ATM) technology, with its roots in Cambridge. "We are moving to an era when real-time digital voice and video will be impor-

> second generation corporate web sites are generating an explosion of multimedia content, boosting fering from its own success. Both traffic on the Internet backbone which is now doubling every 100

As the number of Internet users and web hosts have grown net have grown rapidly leading exponentially over the past few to periodic doomsday predictions years, the data networking, telecommunications and Internet service providers who own the Internet backbone - the high-speed connections which bind together the Internet - have been scrambling to keep pace.

attachments. At the same time,

In this never-ending game of catch-up, telecom groups are investing huge sums in upgrading the Internet backbone infrastructure with fast transmission technologies such as ATM, Frame Relay and packet over sychronous optical network (IP

Switch and router congestion a significant cause of delays on the Internet - is being tackled through the introduction of prior itising mechanisms and quality of service classes and some telecommunications companies are seeking to eliminate the need for routers altogether by delivering switched virtual circuit services for ATM.

Transatlantic capacity in particular has mushroomed as the hig Internet aervice providers scramble to keep pace with demand. UUNET, the WorldCom snbsldiary which has just upgraded its own UK backbone to 155Mbps and has a 135Mb transatlantic link, is spending \$1m a day to npgrade its worldwide Internet backbone infrastructure. In a large part, this reflects the growing needs of corporate customers - for example, in Britain orders it is taking for high bandwidth 2Mb corporate connections has more than doubled in the past six months.

But adding capacity to the backbone is not the whole nswer. For a start, the speed of the fastest network is constrained by the rate at which data can travel over the most sluggish part of network and as fast as one bottleneck is eased. another appears.

In addition, the very technologies which are designed to speed Internet access and reduce user waiting times, such as fast modems and integrated digital services network (ISDN) lines, are themselves leading to higher traffic volumes

A technique called 'Cache management', pioneered by Mirror Image, a Stockholm-based start-up and now also adopted by Cisco, represents one attempt to break this loop. Cache management involves Internet service to switched networks built



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providers copying and storing tent that is driving bandwidth commonly accessed web content demand," he says, locally on huge servers where it

can be accessed quickly. Once set up, web browsers in Europe would no longer have to traverss the congested transatlantic links. "Users in North America will also benefit from reduced traffic on their side of the Atlantic," says Sverker Lindbo, Mirror Image's founder and chief executive.

In the meantime, however, higher speed Internet access technologies do offer some respite for end-users. These technologies include faster modems and other transmission devices to deliver more bandwidth over the existing telecommunications infrastructure, and the use of new digital delivery mechanisms like cable, wireless and satellite.

Inside companies, slow 10Mbps ethernet networks are giving way around fast (100Mbps) ethernet connections. Some companies. particularly those with high volumes of mixed local area network traffic, have adopted ATM all the way to the desktop, while others are investigating Gigabit Ethernet running over fibre optic

Even the connections to desktop PCs are being upgraded to handle higher capacity, simply with the advent of the Universal Serial Bus (USB) and IE-394 (Firewire) technologies coupled with faster internal PC architectures capable of handling large multimedia files.

"File sizes have just exploded," says Sundi Sundaresh, vice president of worldwide marketing for Adaptec, the industry leader in I/O (input/output) technology. "It is primarily the richness of condemand," he says.

From an end-user perspective one of the quickest and easiers ways to speed up Internet access has been to upgrade the modem connection. Today, 33.3Kbps modems are commonplace but modem manufacturers' attempts to push analogue modem technology to the limits with 56Kbps devices bave not been wbolly successful.

In part, this is because two incompatible 56Kbps 'standards' - x2 and K560ex - have emerged. backed by rival industry consortia. However, most independent tests have shown that 56K modems - which supposedly can download data at 56Kbps but are limited to a maximum upload speed of 33.3Kbps - rarely achieve their full theoretical data throughput because of line prob-

lems and other factors. A more reliable, but also more

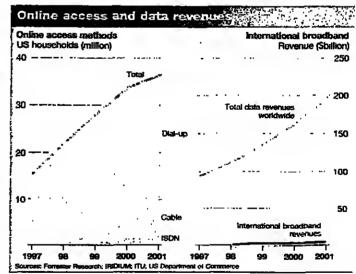
ogue modems in favour of the digital transmission and the midbandwidth' services enabled by ISDN lines. Basic ISDN services enble data to be transmitted at 128Kbps over existing ordinary copper telephone lines, but require special equipment in the telephone exchange and the cus-

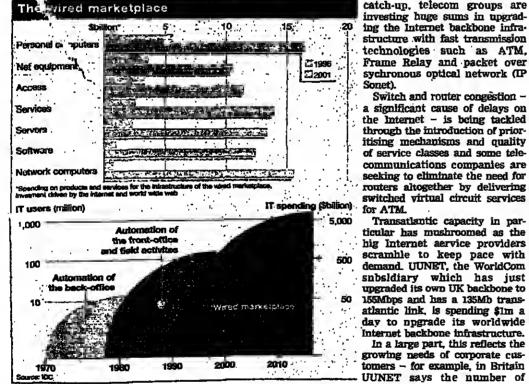
tomer's bome. As a result, its

adoption has been patchy. In places such as California and Germany, where local phone operators have offered low installation prices, the number of ISDN lines has grown quickly. In Germany, for example, the number of ISDN lines jumped from fewer than 100,000 in 1990 to almost 1.85m last year and is growing at more than 100,000 a month.

But consumer demand has been much more subdued in countries such as the UK.

Continued on next page





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# Prospect of a world full of digital devices

An IT industry leader anticipates the emergence of function-specific digital information devices for home and office – very different from the personal computers we use today

▼ Platt, chairman More immediately, he says and chief executive officer of he finds it "amazing how Hewlett-Packard, they many companies are still mostly want to talk to him trying to implement things about the Internet and corporate intranets - private networks, based on Internet technology.

The really hot thing right now is the application of the Internet and intranets in their companies," says Mr Platt who joined HP in 1996. pliers, with customers and

Name: Lewis E. (Lew) Platt

board, president and chief

Born: April 11, 1941, in

Johnson City, New York.

Education: He holds a

engineering from Cornell University in Itheca, NY, and

business administration from

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Hewlett-Packard.

Current title: chairman of the

hen senior execu- extend out into the Internet V tives meet Lew as a way of doing business." auch as e-mail within their companies - I find that abso-

lutely remarkable." However, HP's 56-year-old chief executive says that most business executives recognise that the Internet can connect them with sun-They want to know how with other constituencles, including shareholders.

Hewlett-Packard's man at the helm

Career: After Joining HP in

1966, Mr Plett held a variety

of management posts in the

operations before becoming

1987. The following year he

was named to oversee the computer products business.

In 1990, he became head of

FT Review of

an executive vice president in

areas of medical products.

analytical and computer

thing that has been going on for a long time, he says. that if they haven't already built these very robust net-works yet, then they are quite far behind and they

need to move very quickly."

HP itself already allows a number of its key suppliers to access its intranet to look inside the company and check on demand for their products. The Californiabased group is also in advanced experimentation stages of linking a few of its hest customers into HP's network. So, instead of having to call the office to ask what the status is on an order, they can check it themselves. "I think that

officer and a member of the

succeeded David Packard as

chairman when Mr Packard

announced his retirement in

Other activities: In 1995, Mr

Advisory Committee on Trade

Platt was appointed to the

President Bill Clinton and is

Policy Negotiations by

board of directors. He

September, 1993.

In many ways, intranets are a new name for some the future." catch up with technology. The Palo Alto-based group

has also used technology Most people are realising internally to develop global virtual manufacturing operations where, instead of having a manufacturing facility dedicated to a specific geography, the manufacturing resource is really fungible. This provides a some ways that this has wide range of henefits gone to a point of diminishincluding flexibility and what he calls "load balancing". But he warns that it takes very robust systems to do that.

One compelling benefit is in the area of inventory, he says. Before HP adopted its virtuol manufacturing model, one plant could run out of a component and have to pay a pramium for a rushed order - or close-down manufacturing temporarily. even though there was plenty of the same component in another location. Today, that sort of thing doesn't happen. We will simply move the part - or, in some cases with our vendor, move the delivery of the next part from one location to another."

Similarly, HP, which had revenues last year of more than \$38bn, has used technology to make its marketing operations more streamduce marketing materials over and over," says Mr Platt. "Today, we put them out on the network, people pull off what they want, do localisation and - bingo! you have whatever you need in a particular market, all out of the same source mate-

HP has also enthusiastically embraced teleworking, particularly in its sales operations. Overall, about five per cent of its workforce operates from 'virtual offices.' Exploiting HP's extensive internal network has enabled the company "to re-engineer the way it does almost everything," he says.

s a result, be claims the company is much more efficient, makes better use of basic materials, provides employees improved access to information and allows them moch more flexibility in terms of

as "an incidental telecommu- home, car and office. ... travel 60 per cent o the time, and through e-mail and voice mail. I'm able to function out of the office and keep things moving." One result of this has been to belp speed up product cycles don't necessarily have to go up to 6Mb of downstream and other business sched- to a speciality store to buy bandwidth to individual ules, particularly in the fastmoving IT industry.

However, Mr Platt believes that some companies may be "heginning to hump up against the limits...if you look at companies that are already very heavy users of the network, of facilities an embedded technology, such as voice mail, e-mail and so forth, then we are already doing business about as quickly as it can be done.

'As someone remarked recently, the time between decisions that you are asked to make is now shorter than the time it takes to make good decisions, and that prohably suggests we are getting close to some sort of Indeed, HP's chief execu-

tive argues that In some circumstances, what he calls "the rules of the road" or "social norms" have yet to ing Intel, HP and Microsoft

considered unacceptable for him not to be attending to his voicemail or e-mail over a three-day holiday weekend. "People will not tolerate the fact that I don't get back to them within 24 hours - and perhaps faster.

"I guess I'm arguing in ing returns and we haven't quite worked out what the social norms are for when it's OK to switch off your mobile phone or to go on vacation and not reply to e-mail and voice mail.

the broader ontlook for the IT industry, ha believes the world will eventually be populated by hundreds of different types of digital devices. He quotes the head of HP laboratories who said "wa are headed for a world in which we will have an information ntility and information appliances. Mr Platt adds: "If you

think of the parallel world where we have an electric utility and electrical appliances, then I think you begin to understand what the future holds. Our belief is that as this information ntility becomes very robust, it is actually going to be more widely available than the electric utility because wireless access will give you even more availability.

Today, if you want to plug in an electric appliance, you have to find an electric outlet. But with an information appliance, you have - in a cellular phone, for example everything you need to

gain access. instead of general purpose PCs, HP is betting that there will be a new range of function-specific digital devices. Today, he notes, "we are all using roughly the same PCs which, if you think about it, doesn't make much sense. Thus, my dentist, my architect, my lawyer and my wife are all using the same type of PC - yet we are doing such different work."

Before long, we will begin to see a proliferation of what he calls information appliances when, instead of having a PC. we will have a dozen - or perhaps several how they work.

Mr Platt classifies himself ances scattered about the

when you this pretty small, dedicated to a them. Today, you can even huy electric appliances in the grocery store - and I shipped in some markets, think the trend in informa-tion appliances are going to be exactly the same."

In the same way that the electric motor has become microprocessors will also hecome all-pervasive and transparent to the user. "We are still in the stage where we've a fixation around the PC or the processor, but that processor is going to 'disappear', just like the motor has. You'll be surrounded by them, using them all, but drops dramatically. you're not going to describe them in terms of a PC or a processor, any more than you think about the motor in

Mr Platt believes that US consumers and that by large IT companies, includ- 2001, 7m US households will



will benefit from this transformation. But he adds that "just as in the electric appliance area, there has been a proliferation hased on the number of appliances - you will see that trend in information appliances as well." HP wants to be a significant appliance manufacturer and contribute in a number

strement equipment and our components are all very critical to the building of tha utility. The company also believes

it will be one of those businesses that populates the utility with appliances. "Through our venture with intel, HP will have a significant role to play in building of other ways. "Our technol- the processors that will be ogy is very important to building the ntility. We are not going to be a utility operator – we don't want to see hy people and emit ded in these appliances."

As a staunch free mar operator – we don't want to see, Mr Platt believes in the see of the see used hy people and embed-As a staunch free marketoperator - we don't want to eer, Mr Platt believes gov-be - but our technology, eraments have only a lim-

need is some standards to be established around the world so that this information utility really knows no physical or geographic boundaries," he says. "Governments have some role to play in that for example, a government regulates the [radio] spectrum in virtually every place in the world." Government authorities

emerging global information

industry. "A lot of what we

clearly need to make sure that spectrum is made available to the players - "but other than that, they really do need to get out of the way. This is an industry that will develop more quickly without regulation than with regulation

The industry actually has done very well around de facto atandards. Indaed. these standards drive our industry much more than official standards. Official standards emerge usually years after de facto standards have taken over and I think that is the right way to do it - with the possible exception of spectrum-allocation and things like that, where a government really does have a rola to play." He believes it is important

that the governments of the world co-operate, "so we end up with a pretty seamless worldwida network. "Tha good news is: it's

computers, test and mea- ited rola to play in the but it's not too bad.

serving as chairman of one of the computer systems organisation. lined, adapting to local its three task groups, the World Trade Organization markets. "We used to repro-In 1992, he was elected president and chief executive Task Force.

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Firencial Times

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THE NEED FOR SPEED

# **Bandwidth shortage**

From previous page:

where British Telecom has marketed the service almost exclusively to the business user. Nevertheless, there are an estimated 7m ISDN users in Europe - and Frost & Sullivan, the market analysts, expect the number of European users to jump to more

than 30m by the year 2000. However, some analysts believe that ISDN may have 'missed the boat' as a remote access technology and will be superceded by other digital technologies including xDSL (digital subscriber line) and cable modems in the home and small office.

A wide range of manufacelectric appliances, they are rola and Hewlett-Packard have all developed cahle specific purpose: you never modems which can be added read the manual. They are to traditional fibre/coax widely available and you cable networks and provide

> Cable modems are being particularly in the US, but deployment has been hampered by a number of limitations. These include the need to upgrade older cable systems which are often unidirectional only and the fact that the 6Mbs of potential bandwidth must be ahared by all users on a cable

branch. Thus, if only one user is signed on the full 6Mbs is available, hut if 100 users are connected, the data rate

Despite this, the Forrester Research group predicts that cable modern services will be the most widely available middleband technology for have cable modems.

Indeed, the development of cable modems and the perceived threat they pose to the husiness of traditional phone network operators has prompted phone companies to look at alternative high speed data technologies, and

xDSL in particular. Asymmetrical digital subscriber line (ADSL), the most popular 'flavour' of xDSL technology, uses high frequency signals to transmit data at rates of around 6Mbps over ordinary 'twisted pair copper phone lines.

The value proposition of ADSL service is compelling

No matter bandwidth we have, it's never enough'

for the end-user," says Ron-Westernik, vice president of marketing In 3Com's broadband access communications division. "For most applica- satellite-based data services. tions it provides near-ethernet performance for small or home offices.

small office enables new how much bandwidth applications in commerce, entertainment, education and science and the service's cost in the typical carrier's business case is roughly comparable to basic ISDN service.

But despite this, Forrester predicts that while ADSL looks great on paper, most local exchange carriers will fail to pump up sales to mass market proportions for three reasons: Internal dissonance, regulatory impediments and weak demand

Other options include MMDS and LDMS, recently developed wireless technologies that have already been deployed by at least one operator. CellularVision America in New York and which delivers data at 500Kbps. Business users pay \$79.95 a

month for the service, with an installation fee of \$225, while home users pay just \$49.99 a month and \$199 for ingtallation

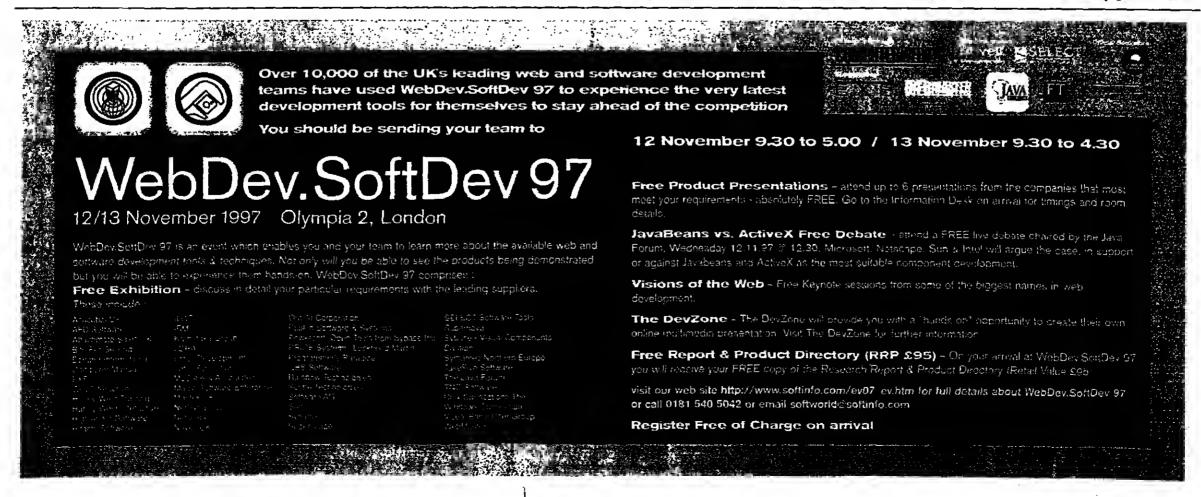
Soma bandwidth-hungry companies - and wealthy consumers - are als looking to a new generation of satellite-based services, satisfy their increasing ly global broadband rec \_re-6X8 TDIG DirecPC, a Hughes bulivetti joint venture service, delivers a 400Kbps dc instream

link. Meanwhile, e" wide range of other comp mies including Motorola, Jatel and Teledesic, a cart-up company backed by Bill Gates and Craig McCaw, have also announced plans to launch

Whether these services prova attractive options to business users will mainly "Multi megabit-per-second depend on pricing. But what bandwidth to the home or is clear is that no matter becomes available, there is

As Steva Perlman, chief executive of WebTV; the Microsoft-owned de eloper of Internat set-top boxes notes: "With every generation of data technology, we think there is unlimited bandwidth. There never is we always find something to do with it."

Interview with John Patrick, IBM's Internet gura: see back page of this Review



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Focus on

# FI Dawning of the IT information age

The overlap of three technology arenas – computing, communications and consumer electronics - opens the way for seamless access to multimedia information and entertainment, reports Paul Taylor

### digital The second half of the 'co-opetition'. media

Here, and on the following 12 pages, FT witers examine developments in digital

SECTION ONE:

Digital content and image manipulation:

- Digital photography: a fledgling market. Computer generated images: wizardry with
- a multitude of new . applications. Digital sound: a new wave of music delivery. - PAGES 4-5

SECTION TWO:

Transmission and delivery:

- Digital printing Digital broadcasting: radio and television.
- Web TV; a marriage of technologies. Computer-based training.

- PAGES 7-14.

SECTION THREE:

Storage and retrieval: Document management: the day of. the digital enterprise. -Removable storage:

suppliers leap out of a sleepy backwater. Advances in hard disk technology. - PAGES 14-15

CHARLE STATE OF THE COLUMN S.

20th century will prob-ably be remembered for the hirth of the information age - a time of unprecedented change ushered in by the rapid advance of digital systems, based on the 'ones and zeros' of binary com-

puter language. cause they share a common foundation, digital tech-nologies are sweeping away the differences between data processing and telephony, laying the foundations for the dawn of the information age, or global information society as some call it.

Digital technology has made it possible to convert text, sound, graphics and moving images into coded digital messages which can be combined, stored, manipulated and transmitted quickly, efficiently, and in large volumes over wired and wireless networks without loss of quality.

Some suggest the late 1990s will be remembered as the time when computing, communications and consumer electronics - the three Cs' - began to merge, opening the way for seamless access to multimedia information and entertain-

This dynamic process is epitomised by the explosive growth of the Internet, widespread deployment of inter-nal corporate intranets and an explosion of content delivery mechanisms producing what Andy Grove, Intel's chief executive, describes as "an inflexion

Indeed, electronic commerce and the multimedia revolution are driving the computing and telecommucloser contact, forcing two industries with different his-

"Convergence of the IT, telecoms and broadcasting industries - made possible by developments in digital technologies - means that many different organisations are positioning themselves to provide multimedia prodncts and services to the home and business," con-

This is reflected in the growing number of alliances, partnerships and mergers in entertainment industries. For example, three months ago Compaq Computer, the PC market leader, Microsoft, the world's largest software supplier, and Intel announced a joint initiative to work with the broadcasting and cable television

research firm.

In today's office, everything is going digital, says Xerox

potential of digital television across a range of PCs, hybrid PCTVs and digital TV appli-

Meanwhile, networking companies, such as Cisco, 3Com and IBM, have forged links with big telecom equipcom network operators themselves struggle to come to grips with the 'new telephony epitomised by the likes of WorldCom, which combine traditional voice nications worlds into ever- telephony and IP (internet protocol) expertise.

Within the IT sector itself tories and cultures into com- Microsoft, the world's bigpetition and co-operation - gest software company, has and digital versatile disk what Intel's Mr Groye calls moved aggressively into the (DVD) promise a revolution

substantial investments in MSN, MSNBC and web television. And Sun Microsystems, best known for its powerful workstations, Risc microprocessors and web servers, has become an important force in the software industry through its pioneering development of firms Ovum, the market Java, the platform indepen-

> The ability to manipulate digital images has breathed new life into the film and entertainment sectors enabling film makers such as Stephen Spielberg to bring dinosaurs to life while digital 3D-imaging holds out the prospect of remotely delivered medical services, virtual journeys to inhospitable environments and the transformation of remote learning and training

As Masakazu Sakisaka, in charge of sales and marketing for Seiko Epson's IT product business, says: "The barriers between information products and other industries are disappearing and new competition and new alliances are appearing." Epson, already a leader in the ink-jet printer market, is seeking to exploit its expertise in digital imaging through alliances with others in the consumer electron-

ics and industrial markets. Elsewhere, convergence is creating great business opportunities and chalnges. For example, internet telephony and e-mail are challenging traditional telecoms business models, web television and so called internet 'push' technologies are forcing broadcasters and information suppliers to reassess their strategies and technologies such as digital broadcasting, cable modems

'content' business through in delivery channels. In the office, as Xerox, the digital document pioneer

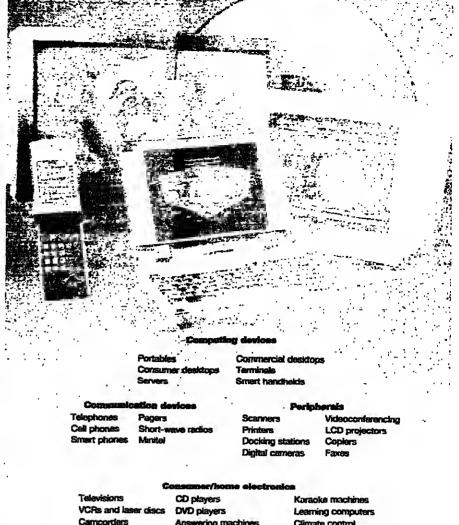
points out, everything is going digital. Desktop PCs and their portable counterparts pack the power of yesterday's mainframes, networked multifunctional digital devices - combining the functions of printer, scanner, copier and fax - are beginning to replace standa-lone machines and digital dent' programming lancopiers and printers are delivering speed and flexibility to the in-house print

> Similarly, the arrival of low cost digital cameras, aimed at the consumer and professional markets, are beginning to transform the industry which generates 100hn photographic images a year in 1996 - and enabling new forms of communication such as the photographic e-mail

> In the home, web television, smart phones and lowprice computing devices herald the arrival of the digital networked home. "NCs are significant because they are part of the convergence between the TV and computer industries and also because they enable new services," notes Ovum. NCs could provide the 'bridge' between the competing aspirations of the television and computing industries.

Intel estimates that 90m PCs will be sold this year. compared with 100m televisions but, within 18 months, the US chipmaker expects PC sales to overtake the TV as the home PC becomes consumer appliance.

Mr Grove believes that if PC sales - and, therefore, sales of the Intel microprocessors which power most of them - are to continue to grow, the PC will need to "win the battle for the con-



recent study suggested that the networked and multimedia-enhanced PC might indeed be winning this battle. It found that adults in the US. between the ages of 18 and 35, who previously spent an average of four hours a night

Game consol

Word proces

Audio equipmen

devoting one of those hours to the Internet. The shift has been recognised by advertisers who, according to the Price Waterhouse 1997 Technology Forecast published earlier this year, are starting to switch their dollars to the internet. Meanwhile, miniaturisation and the shift from analogue

watching television, are now

data markets, particularly in areas such as Europe where the GSM standard has been widely adopted.

Personal digital a

Electronic reference

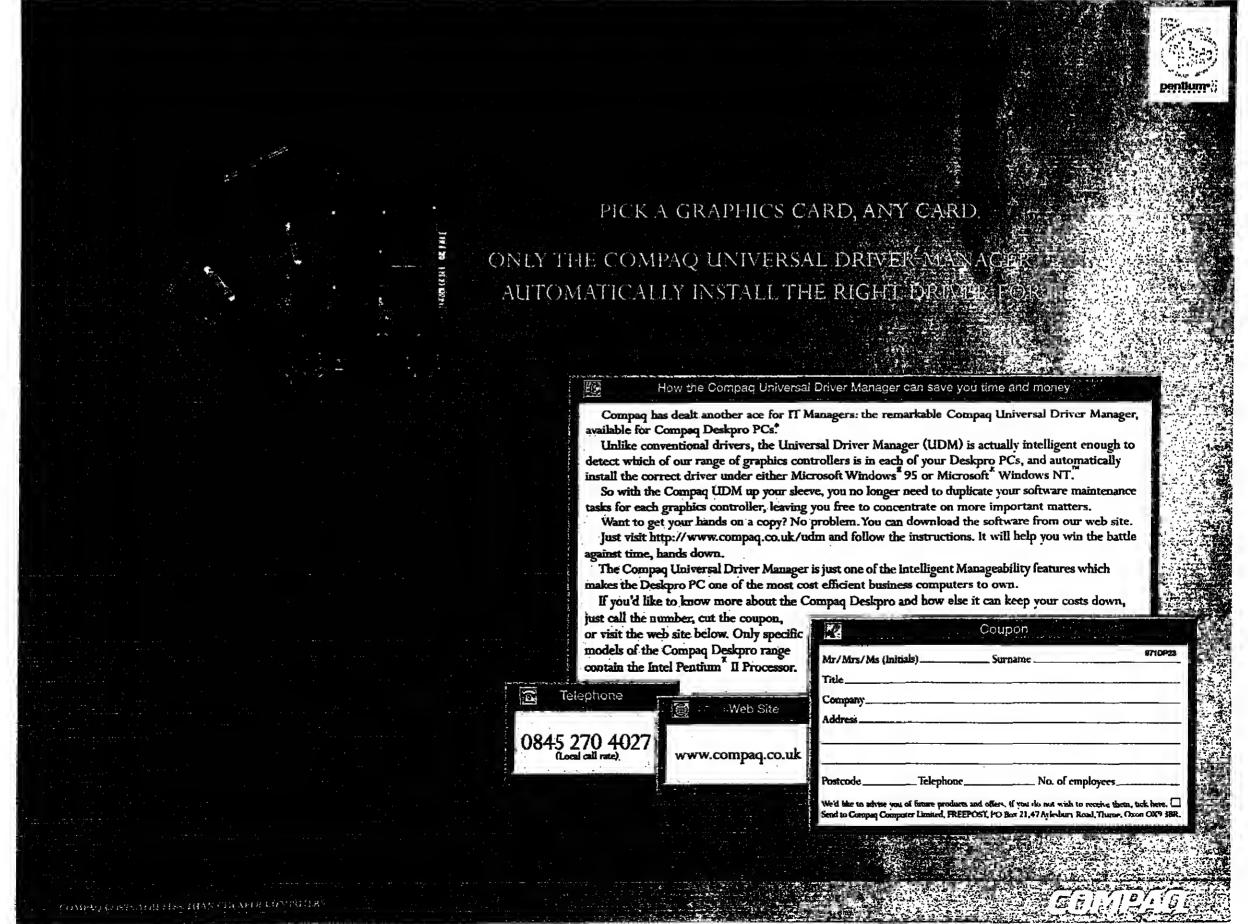
"The coming era of digital personal communications is an era of converging technologies, converging products, converging media and converging industries," says Mr Eckbard Pfeiffer, president and chief executive of Compaq Computer, the world's leading personal computer manufacturer.

If the pace of change is catching some companies off guard consider this - it is likely to accelerate further. As Herbert Kircher managing director of IBM's Ger-

formed the mobile voice and man operations, notes: "The tremendous progress in base technologies, such as microprocessors, memory chips. andwidth and magnetic/optical storage, enables unlimited network computing.

"These technologies will continue their dramatic increase in density, performance and price/performance ratio for the next decade at the same pace as in the last decade."

As digital technologies transform the nature of business, government and society, it is likely that the tradi-tional definitions of computing devices themselves will also need to



# Fierce competition in fledgling market

For now, digital cameras are used primarily as computer peripherals, rather than consumer products

ily album or procameras are winning over a growing number of photog- get their candid photos to raphers for whom the mys-tique of film-based photogra-phy too often translates into than the competition. delay and frustration.

Digital picture quality is big film manufacturers strongly backing the new technology, it looks like digital cameras are here to stay. Digital cameras were once

little more than expensive toys. Images were acceptable when viewed on the Internet or a PC screen, but blow them up or transfer them to paper and the quality limita-tions were all too readily

The technology has improved dramatically in the past year and professiondigital cameras are increasingly using them to quickly turn round commercial jobs

hether they are multimedia presentations.

Paparazzi have discover Paparazzi have discovered that by hooking a digital camera to a mobile computer and digital phone they can the picture desk quicker

It is in the studio camera market that the technology has made the greatest improving and prices are strides. Providing the image falling, - and with even the does not require much enlarging, professional cam-eras, costing £3,000 (\$4,860) to £8,000, (\$12,960) can produce digital images of acceptable quality for use in product catalogues and similar applications. The great advantage here

is the images can be trans-ferred straight from the camera to page make-up program. This saves time and cost compared with the traditional process, in which Polaroids must first be taken to check lighting and compoals who would once sneer at sition, several rolls of film can be wasted trying to get the shot right, and finally the film must be developed which would take too long and scanned to create a digi-

which cost from £300 (\$486) to £600, (\$972) is also improving but is still inferior to that of most "point and shoot" film cameras but there is a growing consumer market prepared to put up with slightly grainy shots for the greater convenience of digital technology.

The big advantage of a digital camara is instant results. Click the shutter and the digital image can be downloaded to a computer ~ or uploaded to a Web site in a matter of seconds. Using image editing soft-

ware, which is bundled with many cameras, the image can be manipulated and then printed on one of the new generation of low-cost photo ink-jet printers. Unlike traditional ink-jet printers, these printers are optimised for digital photography with special paper and inks that attempt to mimic the resolution and colour depth of traditional photography.

photo printers, priced from \$400 (£247), that uses a sixcolour ink cartridge to beat the colour limitations of four-colour ink-jet printers. One of the Lexmark mod-

eras face in the consumer market: the traditional dependence on a desktop computer to store, view and print the images.

Nick Mongston, UK mar keting manager for digital products at Agfa, says computer users remain the principal target market for digi-tal cameras, though he believes the technology will cross over into the consumer market once an infrastructure is in place that allows users to obtain prints of their digital photos as easily as they can today for photographic film.

To reduce their dependence on a computer. the latest digital cameras, such as Agfa's ePhoto 1280, which costs around £550 (\$891) use removable memory cards to store the images. Mr Mongston predicts photo processing labo-Last month, Lexmark ratories will next year start launched in the US a line of to install systems to make prints direct from these prints direct from these To consumers, Agia is per-memory cards. Another haps best-known for photooption for those without a special printer is to send the digital images for printing using the Internet. Kodak

camera, thus overcoming the Network. For \$4.95 a month, biggest hurdle digital cam- consumers can upload their images to a Kodak web site. from where they can be standard ink-jet printer

Kodak recognises few consumers have digital cameras and so KPN is being mainly marketed as an option that retailers can offer when a film is dropped off for processing. Kodak will scan the film and mount the digital images on the KPN web site in addition to developing the film as conventional photo-As with many recent diei-

tal cameras, Agfa's ePhoto 1280 incorporates a small LCD screen that allows images to be previewed and, if necessary, deleted from tha mamory card, thus allowing the user to only print (and pay for) those photos he or she wants - a great advantage over film.

graphic film. Mr Mongston admits the arrival of digital photography caused uneasiness within the company.

approach the new digital market and keep in the filmbased market," he says.

Nevertheless, the company e-mailed to friands - or claims it is now fully com-printed by Kodak on higher mitted to digital technology claims it is now fully comquality paper and at a and the biggest problem it higher resolution than a faces is the intense competition in this fledgling market. The US research company, Dataquest, forecasts the worldwida market for digital still cameras will reach 5.9m units by 2000, but it cautions that the market is not likely to become the consumer bonanza - that many manufacturers hope - before the end of the century.

To get there, prices must fall and quality improve, Dataquest believes. And for the next three years the digital camera will continue to be used mainly as a computer peripheral, rather than as a stand-alona consumer product.

☐ Pictured, right: Panasonic's new digital still camera, the tiny NVDC 1000B, costs around £450 and can record 94 pictures in normal mode, or 16 pictures in higher-quality shots which can be downloaded to a PC via a supplied docking station. The comera offers automatic playback, enabling



Hardly bigger then a credit card: front and back vis



DIGITAL IMAGES . By Michael Prochak

# Wizardry with multitude of applications

The use of computer generated images now goes far beyond Hollywood

n recent years, computer generated imaging and digital effects have become a kind of poetry in an otherwise prosaic and mundane IT world. Hollywood blockbusters such as Jurassic Park, Men In Black, The Fifth Element and Event Horizon are just some of the more recent examples of the and digital imaging

Digital magic is becoming and audiences expect a Where producers and designers used to say that computer generated effects were few headaches. something they couldn't afford to use, today the view is that they simply cannot

afford not to use them . animation and imaging," says Jim Morris, president of Lucas Digital, "writers have been inspired to invent more characters and stories that utilise digital technology. Film makers are no longer dinosaurs and space ships sxciting. Paople who are look so real that they become characters in and of themselves."

Computer generated imaging is now big business, thanks to a range of mergers, acquisitions, multi-mill-ion dollar deals and large development teams pushing the boundaries of digital

technology.
Since 1993, tha industry has become a blur of shifting personalities, companies and alliances which began with Wavefront's acquisition of Thomson Digital Image (TDI) from IBM. A year later, things accelerated with the sale of Softimage to Microsoft, another good example. of how Bill Gates is buying the digital market. Silicon Graphics followed suit by snapping up Alias and Wavefront, the two biggest software developers for SGI harriware.

Rapid technological advances driving this market have meant that developments such as the Pentium processor and the release of Windows NT have made the desktop PC a viable contender in the power-hunery graphics market. This has also created a genuine threat and CG effects created by to existing and more expensive "black box" market Rushes. leaders such as Quantel and Silicon Graphics.

While SGI remains the Hollywood favourite and is and animation for years in a still perceived as having variety of disciplines from superior processing power, molecular modelling to physical simulation, and now are now looking more and more impressive when it comes to relative price/performance levels.

NT is rapidly being perceived as good enough technically for nearly all types of

CGI work and even SGI have recently announced an NT platform port for key application software which shows not only their concern about backing the right operating system, but also their

increasing confidence in the NT platform itself. The clear message from all of these trends is that sophisticated computer generated imaging is no longer the exclusive province of large "black box" effects houses such as Industrial Light and Magic or Digital Domain and that the industry is maturing so that almost any size organisation exponential growth in the can create clever 3D wiz the use of computer graphics ardry for less and less

money. According to Josh Rose, increasingly commonplace executive vice president of VisionArt and visual effects greater sense of amazement producer for Independence with each new release. Day, NT is becoming a serious contender and has already begun to give SGI a

"As far as the industry shifting to NT, I think it's definitely going to happen," says Mr Rose. "Whether or "As the result of recent not it moves to the likes of advancements in computer the DEC platform where prices are almost the same as SGI and there's a lot of questions as to why you should do it, there are other NT products where say you can get a Softimage licence on a box for \$15,000. Now satisfied unless tornadoes, that would be extremely already using Softimage on SGI are looking at what it can do on NT and that, in turn, opens up a whole new

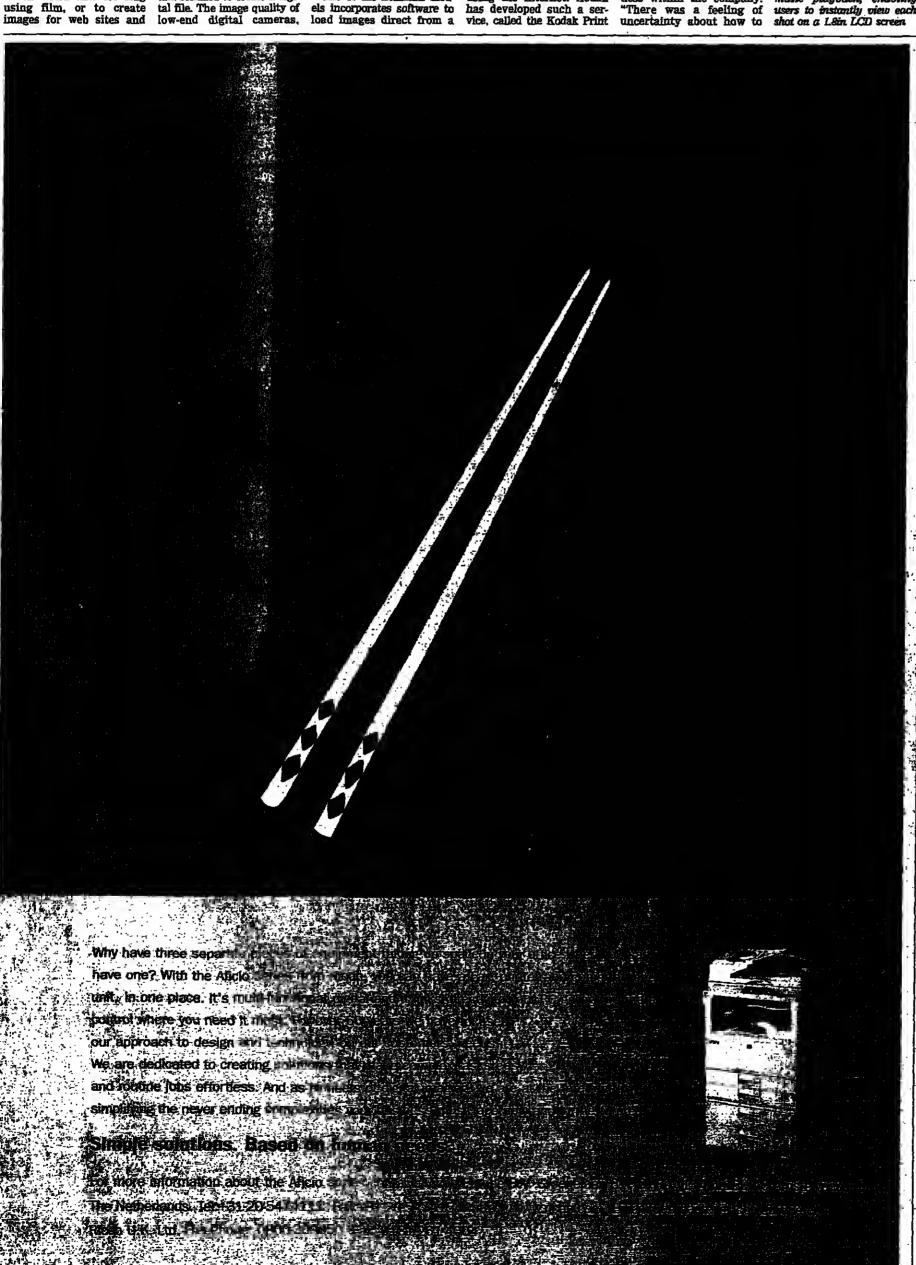
way of thinking.
"Low-end systems have already been doing TV work for some time now and it's getting to the point where the Intel processor speed is fast enough and in some cases, faster then SGI systems at a much lower

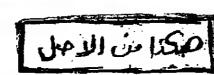
But while Hollywood may grah the head-lines, computer generated imaging is now widely used for a vast array of applications in a whole range of businesses.

TV and advertising companies, where computer generated animation is a mainstay for station "idents", trailers, adverts and title sequences, can now match Hollywood effect for effects. Recent adverts - for example, the Ford Puma promotion have digitally resurrected dead actors such as Steve McQueen who was then able to 'star' in a Bullitt-like remake which included live film shot in San Francisco London-based post-house

Outside the world of film and television, scientists have used computer imaging ical simulation, and now medicine is a high growth area as surgeons explore surgical procedures on computer-modelled patients. Architects have also become hig

Continued on facing page





graphics and video software - ative potential and to save -

applications, which are then money and time in produc-

integrated into the movie.

With key Apple technolo-

gies such as QuickTime, the video editing and playbook

software, plus other Apple

technologies - such as Color-

Sync, which ensures that

colour matching is consist-

ent across different applica-

which antomates many

special effects artists created

some memorable scenes for

....We believe more Mac

systems were used in Bat-man and Robin, in more uni-

que ways, than in any pro-

duction ever before," says

Guerrino DeLuca, executive vice president of Worldwide Marketing for Apple. "We're delighted that Baiman and

the movie.

repetitive tasks - Hollywood

are saved by

computers

wood movies.

creating images

pple Computer has faced problems in expanding its market

tion and its systems are still tions, and AppleScript,

Hollywood special effects Robin has made such exten-

share for the Macintosh plat-

form, but it enjoys a large

market share in key markets

such as digital video produc-

favourites among many pro-fessionals working on Holly-

instrumental in creating

special effects in the recent Hollywood movie Batman

and Robin and in many

other areas releted to the

film, such as set design and

co-ordinating the work of

many different movie pro-

sound has come e long way since early anal-

ogue synthesisers of the late 1960s. Today, most desktop PCs are capable of reproduc-

ing CD-quality sound or

audio device controllers.

music and sound.

is etill the favoured computer within the music

industry for all aspects of

digital audio production.

Mark of the Unicorn.

duction specialists.

many of the computer-based

Macintosh systems were

on Macintosh



ardry with

titude of lications

are even using advanced PC- are also becoming more elab. He believes we will see a based graphic systems to orate because the ability to greater use of technologies creete cost-effective and digitally remove objects that create characters with accessible virtual training from shots means that thin, seal human-like movements scenarios for the fire service. As technology improves can now be replaced by creating computer-generated and CGI becomes more com- heavier cables or more actors. You're also going to monplace, the real magic is robust supports. see compositing and the use often not just the awesome. The really clever stuff," of digital actors going to new effects that viewers enjoy, says Mr Rose, is going to be levels. And that will be but many other illusions the stuff that you don't even really amazing."

From facing page:

training aids

High levels of realism that audiences do not see.

more than a year to complete. Lucae's Industrial Light and Magic made extensive use of Avid Metador

software to seemlessly match live action and computer graphics in post-production work. Acid's

users of the technology, for creating fly-bys and 3D walkthroughs of proposed what could loosely be directed by Fraser Heston projects.

What could loosely be directed by Fraser Heston described as 'salvage work'. It's a film that the majority Less obviously, lawyers This can include services of the audience wouldn't Less obviously, lawyers This can incinde services are exploiting "forensic" such as the removal of believe even had any compouter animations and unwanted objects, tidying up puter graphic (CG) effects.

"In reality, there are more graphics in a variety of errors in shots, matching "In reality, there are more weys, such as recreating lighting effects or back-accidents or walking juries grounds or creating 2D or 3D that's the sort of staff that's through crime scenes. In the

corporate market, applica- live action. corporate market, applications for computer animation and imaging now save money in production based footage, or even makingling for cars, aircraft and niques that can create go to a location, by using other machines, as well as "flocks" of alien spaceships photo-realistic CG. It's nice training sids.

Or fighter planes on make a to have people look at your Companies such as UK- small crowd of real actors based Colt Virtual Reality look like thousands. Stunts you worked on it."

Much of the real for me is that we worked on day-to-day work done by spe-cial effects houses involves from Columbia/Castle Rock,

backgrounds to complement really exciting. We're doing some very organic things, work and have no idea that

Apple stars in Batman movie Time and money artists made extensive use of sive use of Apple products sure that colours were conment their in-house efforts.

Are saved by:

Are saved by:

generate consistent and com-

parable images. "With the Mac, I could the Macintosh platform. Liz Radley, computer graphics supervisor on the send an image to someone production, says: "We had across town and be able to an insatiable appetite for the discuss it within minutes -Mac. No one wanted another instead of the hours it used platform unless they were already committed to that to take. This streamlined the communication process and platform. There were dozens made it much easier to keep things flowing," says the of new converts to Macinfilm's director, Joel Schntosh during the production."

he Maciotosh platform not only provided the producers of the film with a powerful system that could render high definition digital special effects but if ments seen in the movie. She said that this made it was also very useful in definehots and eave money ing and ensuring that the film kept to e specific image because this work could be style. The producers created a series of "style gnides" done in-house. The producers also hired a that acted as templates for dozen third-party special

quickly generate digital industry workflow - both to style guides ensured that companies also use Macingraphics using standard add value to the film's cre- people working on various tosh computers, and those aspects of the movie would that use different hardware platforms, were able to import and export images to

> Apple is working hard to support the community of Macintosh video production professionals and recently demonstrated a new version of QuickTime.
> "QuickTime 8 can support

real-time digital effects and we are working with other software developers to inte-Production designer Bar-bara Ling used Macintosh computers to design sets and create some of the environ-interin-CEO, Steve Jobs at a recent computer conference in San Francisco. In Batman possible to plan complex and Robin. Apple computers also had supporting roles. Batman and Robin are seen using the portable Apple 'eMate 300' and the futuristic-looking Twentieth Anniversary Macintosh. effects companies to comple-



Behind the scenes, Apple Computer played a crucial role in the auccess of 'Batman and Robin'

### new wave of music delivery The world of digital .

Computer-based digital systems have become the mainstay of home studios and professional producers alike

working in conjunction with a burgeoning range of digital audio and sampling technol-ogy which includes products tinguished himself as orchestrater, composer, conductor ogy which includes products and collaborator, working such as digital hard disk with everyone from Pavar-

recorders, digital sampling otti to Dylan. "The ability of my Midi-based synthesisers to 'speak' instruments, digital sample players/synthesisers and to my computer via musical Old standards such es software makes it possible Midi (Musical Instrument for me to play music, see it Digital Interface), a hard- as musical notation, work on ware/eoftware protocol that it as if it were paper and allows computer-based musipencil on the screen, posical instruments to exchange tion it to fall precisely where data concerning music it needs to be 'in sync' to a parameters, are facing comfilm, play it back and adjust petition from new technologies such as Firewire, an it at will, add orchestration, record it in real audio or interface standard developed Midi (maintaining synchronby Apple offering better isation all the while), bandwidth and accessibility playing it for a director, trying out his new ideas and for digitally transferring. being able to reveit to my original after demonstrating that I had it right all along." Despite its recent financial problems, Apple's Macintosh says Mr Kamen.

Opportunities

Leading studies in the UK Home recordingor has such as Abbey Road have become one of the fastest were standard Midi. growing industries in the installed Power Macintosh community. As with exclusively on Macs with had on the TV todnstry, software such as Performer cheaper and more powerful and Digital Performer by audio systems offer compos-In a musical career that is direct control over the cre- now been extended to con-

faceted. Mr Kamen has disthem less dependent on bution thanks to the Interlarge studios, engineers and net and a new product called producers. Liquid Audio.

Four-track MiniDisk recorders are abnost as cheap as four-track cassette recorders were a few years ago and can now double as a mix-down deck, providing many aspiring bands with the ability to produce professional-quality demos, if not complete albums. And computer-based digital studios providing 16-track mixers hard disk recording and unlimited audio effects have become the mainstay of home studies and professional producers alike.

each shot, and also made

· Paul Raymond, lecturer in Music Technology at Weston College, says: "The future of music is going to be hard disk recording which uses the computer for everything. Not just for sequencing, but also recording. Real instruments can now be recorded directly into the computer and manipulated as if they

"Programs such as Cubase Audio VST (virtual studio as Michael Kamen work the effect digital video has technology) allows you to add effects usually found in the studio directly."

Controlling the entire ers and musicians more audio production cycle has as celebrated as it is multi- ative process and have made trolling the means of distri-

Just as digital audio tech-nology has revolutionised the way composers and musicians work and record, online technologies such as Liquid Audio could allow consumers to mix their own via the Internet.

CDs and buy music directly from the artists themselves . Liquid Audio's Liquid

'95/NT or Mac OS provides a media-rich musical experience which allows users to view art, lyrics and credits as well as production, agency and copyright information while listening to high-fidelity music on the

In addition to the media browsing features, the free Liquid MusicPlayer makes it simple to download true CD-

Internet.

encoded songs, or point to class sample rate conversion ordering information to edd and fluid 'single-click' the disc to your bome collec-

LiquifierPro provides e

professional mastering environment to optimally prepare audio for Internet delivery using Liquid Audio's Internet-enabled version of Dolby Digital technology. Liquifier features include

MusicPlayer for Windows quelity Dolby Digitel ity format conversion, world upload to website and database. A comprehensive preview function allows users to easily hear the Internet eudio at all modem speeds

before processing them. As for copyright concerns, Liquid Audio has developed a data-encoding technology called digital watermarking to protect lutellectual propwaveform editing, high qual-

erty rights. The copyright information is encoded into the music, without compro-mising the quality of sound. and follows the recording

whenever it is copied. Liquid Audio's technology has already been embraced by artists such as George Michael and Duran Duran who recently used Abbey Road stodios to download their forthcoming single 'Electric Barbarella' from their Liquid Audio Internet

According to Scott Campbell of MediaSpec, Liquid Audio's UK distributor, the

Continued on page 7



(ACTUAL SIZE)

"...best little PC."

-Byte, 4/97, P. Wayner

"The best of the Windows CE devices." -Fortune, 1997 Technology Buyers Guide

"...best of the breed."

"Best HPC device."

(ACTUAL QUOTES)



# Found a sweeter spot for people to play.

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STATE STATES

Good news ferr

# A lively market emerges for rapid print-on-demand

There is big interest in short-run colour printing from all-digital commercial presses

he smell of ink and clatter of presses have been with the printing industry since the days of Gutenberg, but digital tech-nology is rapidly extending its grip across the printing process and even the traditional printing press is no longer sacred, as high-speed digital presses can provide a quicker and cheaper alterna-

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**李维**拉拉

Mark State 1

Digital technology has already revolutionised the "pre-press" stages of printing and today most books, magazines and newspapers are prepared electronically. Only when the publication is Digital systems have trans complete and ready to be printed are the pages converted from digital form to . photographic film, which is then used to create the print- copy. But to meet the miniing plates for the presses.

This pre-press revolution has been made possibla by the advanced power and graphics capabilities of desktop computers, and the Printing experts estimate invention of PostScript, a "page description language" that allows computers to communicate with all types of printers and photo-typesetters - the machines that produce the film.

Adobe Computer develdecade ago and it has become a standard within claims 75 per cent of all comprinted using PostScript. The latest version of the or these applications, high-speed digital press costs software. Postscript 3, has digital presses are less than £500,000 - around a been updated for the Internet age with an option called have no set up costs - the press - and it gives commer-

Businesses can use the same whether one or the ity to handle short runs and internet or internal intracely same topics are printed. The client in time printing jobs to send PostScript files far it. There is a whole lew of the offset industry often printing in a different office, growing market in protein has to turn work down or different country. The demand, says Barry Porter, because its not cost effective distill revolution is now. digital revolution is now moving beyond pre-press to the printing press itself. thanks to new digital presses that do not use ink but

an office laser printer.
There the resemblance ends, however, for digital presses are designed for reprinting: high-speed continuous throughput and some models can handle rolls of paper, or "webs", just like traditional

web offset presses. Offset printing has been the mainstay of the printing industry for most of this century. Offset presses produce high quality output and for print runs of about 2,000 copies or more are highly cost effective. But the presses are expensive and have high set-up costs due to . the time spent making the film and plates and adjust-

ing the press. Printers usually insist on a minimum print-run of sev- uses digital printing to pro- turn round four-colour print aral thousand copies to duce training manuals as jobs within hours rather



applications, the quality is

acceptabla, Mr Porter

get the best quality," he

rather than threatening the offset printing industry. A high-speed digital press costs

cial printers greater flexibil-

The next area to be trans-formed by digital technology

such as Heidelberg and Agfa,

help colour printers to turn

The systems take a Post-Script file and generate the

ing to first go through photo-

graphic film. But the biggest

advance in short-run colour

printing is coming from all-

digital colour presses which use colour rerographic tech-

for printing plates and col-oured take all together.

entering the market and

-their makers claim they

allow commercial printers to

The first such presses are

greater number of prints and als of domestic appliances so reduce the cost of each Oce recently launched its DemandStream 8000, a webmum requirement, customfed digital printer aimed ers may be forced to order squarely at these type of more copies than they need applications. The system can and store the surplus, bopprint 500 copies of a 288-page ing they may be useful later. book in just four hours with a resolution of 600 dots per 15 per cent of all printed inch - equivalent to a good office laser printer. For most

material is thrown away before it is ever used because it has become outdated, while 30 per team used even though it is out that a good ouser partial dated because of the high achieve higher quality.

The problem is that most are not set up oped PostScript over a ing. The drawbacks of effect offset presses are not set up printing are particularly correctly and so you don't apparent in publications that the printing industry. Adobe are needed urgently in argues. Oce sees digital claims 75 per cent of all comes small numbers, or whose presses complementing mercial publications are contents frequently change.

per copy cost remains the

Oce Printing Systems, a leading supplier of orgital printing equipment. An will be colour printing and example is short run book analysts say "on demand" instead have a laser minting publishing. When a rook colour printing is the fastest "engine" similar to that in goes out of print, the beed growing asyment of the an office laser printer. for a minimum print run on industry. a traditional offset/press .] The latest computer-tomakes-it difficult to justify plate systems, from vendors

> -Academic lournate are another area that could ben round work quicker and efft from digital printing, reduce set-up costs. because the economies of scale of offset printing discriminate against specialist publications with small print runs. One fast growing application for digital printing is technical manuals. Hightech products are continually evolving and their mannals need frequent updating nology to eliminate the need

to reflect design changes.

With digital printing, the documentation can be kept up-to-date and manuals printed in smaller betches more frequently. Microsoft spread this set-up cost over a does Siemens for the mann- than days or weeks.

The proof is the group in the minutes to send to the minutes it needed to show machine and a comple of colors print outs of pro- hours to print. It's not like posen visuals to marketing setting up a printing. ont the delay of getting col-

ortion Harrer senior However he tells enstom-eigh group head at Cadera: You have to think the wanted this sys about your business differ-for because it gave trees ently ... a few years ago. er then other colour at 40 pages a min- say. It won't cost you much machine

The machine was installed in January 1996 and his enabled the stadio min a year and it will procompared with 400,000 last full colour are cost-effection dies work is now done on the says Mr Harper. the Hochfoldens was

be at least 500 or 800 copies so that costs of setting opthe machine can be spread. Now the studio says: "You copies. And extra copies are easy to produce

in a department comes, were here, we couldn't use back and asks for another 10 the machine." copies, that's no problem. "We keep digital files of all the jobs we've done in our archive," he says.

Printing-on-demand at Cadbury-Schweppes - report by Joia Shillingford

machine with plates, says

Our separations produced. The machine is not com-We looked at the Xerox partitive on large print runs. Decide on machine, says of say, 8,000 to 10,000 copies. es on the market and 500 copies, the printer would more for a thousand? But tomer might still have half a

"Today, there's no need to nover is approaching have wasted material You can order 300 promotional leaflets - see how they do. successful Budgeting is year. The benefits of the easier, too, because if you system include cost savings, order small quantities, you greater flexibility and concan pay as you go."

> ible a veer ago. "We had Canon 709 machines that weren't quite colourcorrect," he recalls. "Now we can colour-correct the DocaColour as it prints out. problems, we had to call in technicians, and while they

Cadbury uses a Splash Rip (a raster image processor) in confunction with the Department to give smooth Changing work at the last colour gradations and minute is possible too clearer reversed out copy

The design studio of drop to smother picture or Productivity doubled became interested in print product is quick too a second sense of design studio paics in our second of the newsletter print and of son at design studio



same network as the Xerox. has 30 or 40 staff, including machine.

As well as producing sales leaflets, shelf-strips and other promotional items, the DocuColour is used to print Cadbury's 'Great Ideas' newsletter which is distributed internally to the US. Australia and elsewhere.

Cadbury-Schwappas' brands in Europe, India, Africa and South America can all use the Bourneville, UK-based studio, if they wish However, Mr Harper DocuColour is £95,000. says demand for its services. Leases usually run for five "Instead of abandoning against a background. The has increased because the years, with the recomexpensive artwork; you can. Splack Rip is a computer studio is very well-equipped, mended price for a configu-

server which sits on the and price competitive". It

Cadhaty leases the Docu-Colour 40 and Splash Rips from Xerox. It does not believe in buying outright and the technology available - is changing so fast. It also has three nine-pages-aminute Xerox Regal colour copier / printers on its net-

The list price for the

ration such as Cadbury's (apart from the Regals) costing £5,000 a month, including a SpisshRIP and 30,000 copies a month. Additional copies are charged at five pence each. Discounts are available on multiple pur-

Cadbury is planning to order a second DocuColour system, although there are some colour effects that the machine just cannot create - such as the colour 'gold' which Cadbury uses a lot for some Cadbury-Schwep-

The company would also like the machine to operate a little faster, so the studio could increase its through put - conventional printing machines print at about 9,000 pages an hour. And the studio would like to be able to print on a wider variety of paper weights, including

purposes the studio had not originally envisaged. "We have two digital cameras and are now printing pictures from them directly on to the DocuColour," he says. This is about a third cheaper than conventional colour (film) processing and is far more environmentally friendly because the studio does not need to use the chemicals involved in 'wet-

and-soggy' photo-processing. "We're going to sell our colour (film) processing machine," says Mr Harper. "Most people are going the



DIGITAL SOUND

### Good news for music fans

From page 5:

Blectric Barbarella Internet mix signifies a new wave of music delivery. "Consumers who have Internet access can listen to the track and purchase the single over the Nat. The reality Duran Duran have brought home with this promotion is that this technology is here

today," he says. Explaining his own company, Aegean Records' inter-est in Liquid Audio, George Michael says: "As a musi-cian, I feel that my audience will only fully embrace the Internet when it gives them the level and speed of quality that they are accustomed to. I feel our partnership with Liquid Audio will be our first step in revolutionising how we, and ultimately the music industry, deliver

music to fans." Danny Johnson, the creative director of Internet Underground Music Archive (IUMA), says Liquid Audio's streaming capability, extensive audiophile sound controls in the encoder, and an interface that is more artistfriendly than Liquid Audio's primary competitor. RealAu-dio, could radically change music distribution and buy-



Pop star George Michael says Liquid Audio is helping to

ing methods. Liquid Andio lower bandwidth, and decide allows more information such as band background and contact numbers – to be delivered with the sound files, says Mr Johnson. Later versions of the soft-

whether to download and buy a high-bandwidth, hi-fi version. "We're always pushing for ways that enable musicisms to make a living outside of the big music ware will allow users to lis- industry. Liquid Audio is ten to a group of songs at a one step closer," he says.

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**DIGITAL TY DEVELOPMENTS** • By Michael Wiltshire

# UK 'poised for a global lead'

on to re-invent TV for the millennium

he average person's perclever toys, says John Kavanagh, media industry director at the IT consultancy, Cap Gemini. "But in ahead of the US in commercial the media industry, digital technology is bringing a revolution and like all revolutions, there will be winners and losers."

Mr Kavanagh is already deeply involved in next year's launch of digital and interactive television in the UK, expected to give viewers new services and dozens more channels by autumn 1998.

His company, Cap Gemini, is providing strategic consultancy. specialist IT skills and outsourcing services to organisations pioneering the changes - UK companies such as British Interactive Broadcasting (BIB), Carlton TV and BSkyB, and to broadcasters across Europe, such as Canal

f high technology ven-

ture capitalists - and Microsoft, the world's

leading software supplier -

had been around in the days

were heing invented, the

world of broadcasting would

- since these two types of

ing into the TV and radio of

the wired world.

in terms of integrating many new technologies and in huilding what amounts to a whole new husiness from scratch.

"With less than a year to go, ception of all things digital it's time to take the anoraks off is of nifty new gadgets and and get down to business. The and get down to business. The schedule is tough, but if we succeed, the UK will have jumped exploitation of digital technology in television," reckons Mr Kavanagh - who, incidentally, is not to be confused with another John Kavanagh, who writes regularly

for the FT-IT Review.
At Cap Gemini, Mr Kavanagh points out that "the Americans have gone off interactive after several costly gaffs. We in Britain now have the chance to get it right and show the world that the country that invented television in the first place can re-invent it for the millennium."

Sam Chisholm, chairman of BIB, agrees with Mr Kavanagh's

After a troubled start Achieving the target launch range of interactive services on in support of the multimedia contive to subscribers." And BIB points out that "the new venture will open up the information age for the PC-user."

Exciting as new types of TV channel might be, it is in the field of content management the exploitation and re-use of creative content across different is now ahead of the US in the media, and the efficient creation and management of new content - that the digital transformation is set to deliver the most lucrative commercial opportunities, according to Mr Kavanagh.

Big potential

He helieves that many broadcasters, publishers and producers could multiply their revenues from new and existing material if they fully embraced digital technology. Significantly, the Cap Gemini Group has just won a big contract from the European Com-

in the US, the race is dates is, he says, a hig challenge offer will make BIB very attraction that industry during the period

The study will include film. video, broadcast and print media to the television viewer - not just and access certain to influence EC policy-making profoundly. There is a new determination not to get left behind by the growth of US power brands.

There is no doubt that Europe race to deliver digital hroadcasting to the public," says Mr Kavanagh. "But the real challenge is to exploit that lead to develop products and services that meet consumer needs."

Mr Kavanagh is also keen to point out that developments such as interactive TV will bring media companies into ever closer contact with consumer tastes and preferences, and that intensified competition will force the industry to focus on huilding consumer loyalty.

"Surprising though it may seem: to a lot of media compaupbeat views. While his amhitious launch schedule is a chaltions for medium and long-term unknown - an alien," says Mr lenge, he emphasises that "the strategies and EU policy actions Kavanagh, who likes to use imag- lite, digital terrestrial and inter- consumers will really need and



Science-fiction film posters of the 1950s - but today, many media comp unknown...an alen, says John Kavanagh, media industry director of Cap Germin

films at meetings and confermust, he says, break with the ences to dramatise the point. hroadcasting tradition of "we In order to capture market- know what's good for you" and

share in a world of cable, satel- start learning what these alien

ery from 1950s science-fiction active services, media companies expect from the new services. Perhaps Mr Kavanagh's sci-fi posters also remind us how little is really known about the new

FT.IT DEA

**WEB-CASTING** • By Geoffrey Wheelwright

# Dawn of personal broadcasting services

With new video and audio 'streaming' technologies, anyone can air their work on the World Wide Web

when television and radio must be made. have turned out vastly difvideo and audio streaming can start broadcasting their people to 'tune in'. products gives an idea of own versioo of Internet how it might have developed radio or television. And they can do so without setting up solutions are virtually turn- transmissioo towers or

waiting for government

licenses or trying to please Whichever products domi- government regulators. nate in this sector could end up determining the evolution of both media - and those of market economics. While "web-casting" is far they are doing so in a vastly different environment than cheaper than traditional those faced by traditional radio or television, it is not radio and TV broadcasting free - and many pioneers in be able to hear or see their systems. There is no alloca- this sector are finding their tion of "channels" in cyber- own ways of trying to win space, no need to bid for covaudience-share and advertiseted space on the radio dial ing dollars (particularly 'air' their work on the Weh and no need to conform to since the former tends to onerous government guide- lead to the latter). lines that can dictate every-

Audience-share is proha-

Anyone with access to thousands, of video and good audio or video stream- audio "shows" available in ing technology, a weh site cyberspace, the challenge is ferent from today, A quick and a fast, high-bandwidth not to produce or broadcast look at the market for new connection to the Internet your work - it is to get

There is also the additional issue of heing sure that potential listeners (or viewers) have the technology to hear/see what is being a copy on the local hard broadcast. Unlike radio or TV, if a "web-caster" chooses The only real forces with a less-popular Internet audio which they must grapple are or video streaming technology to make their ahows available on the Internet, then the number of Interpet users who would potentially

It is therefore not surprising that most who want to appear to be settling for a handful of technologies to do lt. Typically, anyone who thing from what programs bly the most challenging wants to allow audio to be may contain or where they issue at the moment, how- heard might provide two ver-

work, declines dramatically.

that can be 'downloaded' (this is a large file that must be completely transferred to the local hard disk before it can be used) and, second, one that can be "streamed". so that the file can begio playing audio immediately and will play the audio as it is received, but will not store

or longer audio chunks - such as the live web-casting of a concert, speech or news event streaming is the only option. The question of whose format is used then becomes invests vast power in the moment, that grip is tightened hy the fact that the technology is still evolving so that both users and web-

quality of audio or video. By the middle of last Java programming environ-

month, for example, it ment - hut which do not appeared that Seattle-based RealNetworks has almost a special software to view or complete lock on this mar- hear Vosaic Webcasts. In ket. The company - which July, the company scored a was, until recently, known as Progressive Networks has a huge number of TV networks, movie studios and radio stations signed up as keen users of its technology.

The company produces software upgrades every few mooths to improve it. However, the evolutionary nature of the technology means there is still room for . calls Vosaic TV Station. "In Innovators. Solutions are even more significant - as it appearing that allow streamed audio and video to owner of the format. At the he played without requiring users to either have or down- the Internet all in Java. Itload special 'player' soft-

Chicogo-based Vosaic, for says Erik Simon, Vosaic casters have to continually example, offers both video marketing manager and one upgrade their software in and audio streaming over of the principal organisers of

ever. With hundreds, if not sions. The first will be one order to get the best possible standard web browsers that the Mars webcast from the use the Sun Microsystems' Pasadena, CA.

require the download of any coup by working with Digital Equipment to provide audio and video over the Internet to more than 1m people during the Mars Pathfinder mission.

. It was this event that Vosaic used as its first largescale Introduction of video without 'plug-in' software a technology the company a seven-day period, we along with our partner Digital - delivered video to more than a million people over could not physically have been done any other way ,"

Jet Propulsion Laboratory in

The pace of development not escaped the interest of invested in audio and video streaming pioneers - includ-ing California-based VXtreme which it acquired in August; It has invested also in VDOnet and RealNe-

n August, these investments drew the attention of the US Department of Justice, which made a "request for information" regarding Microsoft's intentions in the media streaming

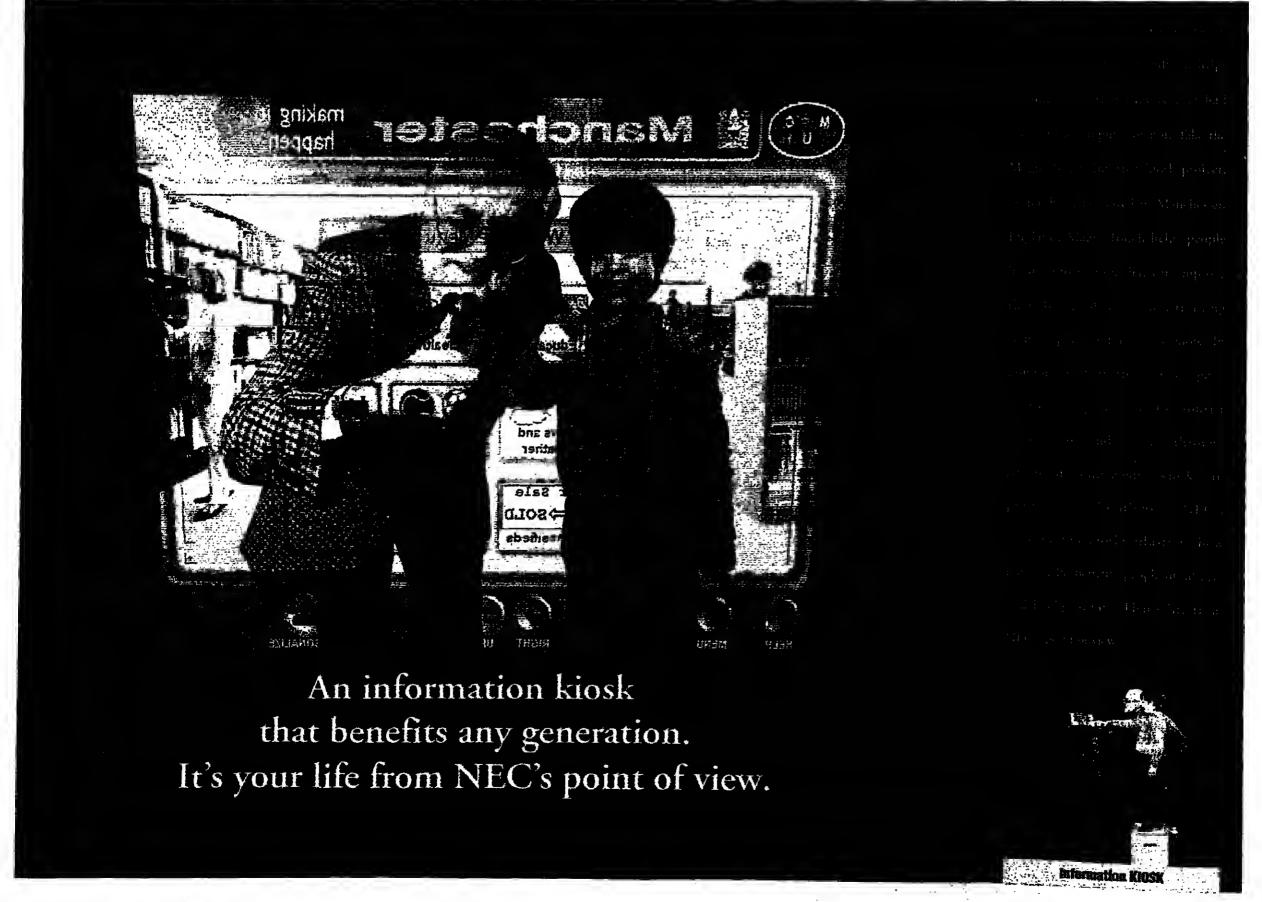
sector. ·· Competition in the streammany companies offering a range of products, said William Neukom, Microsoft's senior vice president for law Profile of Rob Glaser of and corporate affairs at the RealNetworks:see page 13

time the DoJ request for information was made public. "Microsoft is seeking to promote compatibility and interoperability among streaming media products from all vendors, which will henefit customers and further intensify competition. in streaming technology has We are confident that the Justice Department will con-Microsoft. The company has clude that competition is robust once it reviews the

Meanwhile, Microsoft has since sought the support of other streaming media developers for a standard that it jointly proposed in September. Microsoft joined forces with Progressive Networks. intel, Adobe Systems and Vivo Software to invite industry comment on the Advanced Streaming Format (ASF) draft specification.

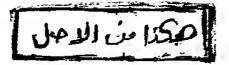
ASF is expected to spur the growth of streaming multimedia by increasing ing husiness is intense, with . choice of production tools and boosting the number of Internet broadcasts.

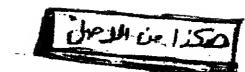
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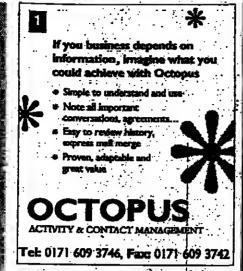
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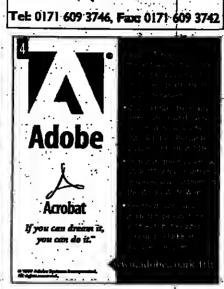
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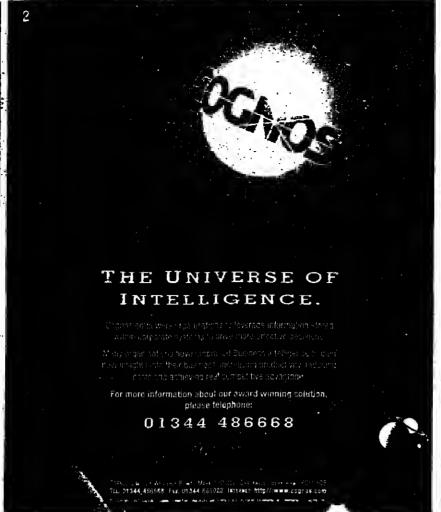






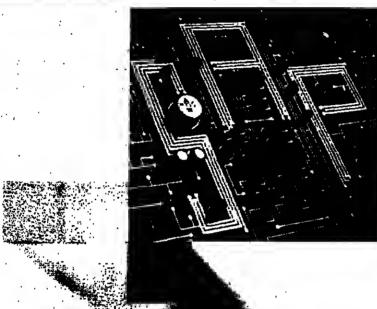


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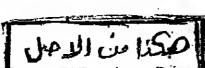
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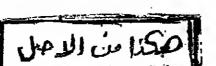
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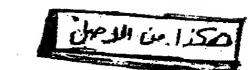
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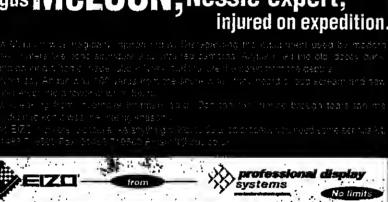
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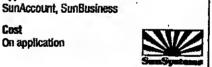
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One main focus of the Siemens Nixdorf server business is on SAP R/3 system platforms. Throughout the world. SAP R/3 has become one of the most successful business management applications on the market. Only a few years ago, R/3 was mainly operated on UNIX-based servers. Now 50% of all new installations use NT. Whether UNIX or Windows NT is the right platform for specific R/3 users depends, first and foremost, on how the R/3 system will actually be used. Siemens Nixdorf has years of experience gained in the UNIX environment - especially with regard to Reliant UNIX and

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SATELLITE BROADCASTING . By George Black

4.6bn people world-wide could have access to digital radio programmes broadcast by satel-

This is one way in which satellites could enable developing countries to overcome the dearth of information caused mainly by the weakness of their telecommunica-

tions infrastructure. The target areas for the project are Africa, the Middle East, southern Asia and central and South America. though the broadcasts may also be received in much of the US and southern Europe.

Thus, people in the developing countries may be users of digital radio before many in the developed world, where it is still in the formative stage, delayed by shortage of bandwidth.

This comes about partly because it is easier and cheaper to launch satellites to beam to the developing regions and partly because pressures make it hard to do this for the developed coun-

Digital radio will be transmitted by the AfriStar satellite, due to be launched next June on Ariane 4, an Arianespace rocket, followed by AsiaStar in December and CaribStar in June 1999.

Each satellite will send three beams in overlapping ellipses, each covering 8.75m

Broadcasters can choose to target one to three of these zones, uplinking their programmes from anywhere within a much larger catchment area.

The project, the first to provide digital radio via satellite and one of the biggest ever undertakings in radio communications, could mark the onset of the longberalded revolution in digital broadcasting.

It is being organised by Worldspace, a US privately held company with unknown investors reported to include Saudi Arabian royalty - who have put up \$750m.

Worldspace was set up by Noah Samara, a naturalised American born la Ethiopia. A former official of the International Telecommunications Union, be has experi-ence of developing satellite systems but not the business record of competitors such as Rupert Murdoch.

Technology analysts at the Ovum consultancy predict that many consortia planning to launch satellites will fail for lack of financial

# Digital radio will be beamed to billions

The AfriStar service will target Africa, the Middle East, southern Asia, central and South America and much of the US



A French technician working on the AfriStar satellite project at Alcatel Espace

Mr Samara says he has provide around 100 channels enough money for his present needs and has not discussed raising more. He says that Worldspace will be in profit by the year 2,000.

These will be capable of from each of the satellites delivering compact disk transmitted at 16K bits per quality sound and a limited amount of video on the porsecond, which can be combined by a bandwidth-on-detable receivers. Digital radio mand system to create 128K produces interference-free sound, using a chip to construct e reliable signal, and

quires no delicate tuning. First-ganeration radios will have very small liquid crystal display boxes, but second-generation ones are expected to have much larger screens. Rough prototypes of the first models have already been demonstrated

Digital transmission could allow other services such as text, fax, e-mail and message paging to be added. It is foreseen that the programmes, provided by both national and international broadcasters, will cover a very broad The radios, equipped with

receive the signals directly cated, Bloomberg, the USfrom the satellite, will be based 24-hour news and made by Japanese manufacturers Hitachi, JVC, Panasonic and Sanyo. They will be fitted with chipsets from SGS-Thomson of Italy and add other prestigious users, ITT Intermetall of Germany such as the BBC World Serto decode the signals. At an initial price of

around \$200, the radios are aimed mainly at the middle class in the developing countries. However, it is hoped prices will fall quickly as ne increases and they could drop to around \$50. Worldspace predicts that 25m radios will be sold in the first five years.

"The aim is to allow universal access to the service," says Mr Samara. "It will abolish 'information pov-

erty'." A new type of commercial satellite, based on the Euro-star 2000+ but designed to be cheaper and more flexible for broadcasters, is being producad by the Anglo-French company Matra-Marconi Space. The prime contractor and communications peyload designer is Altcatel pace of France.

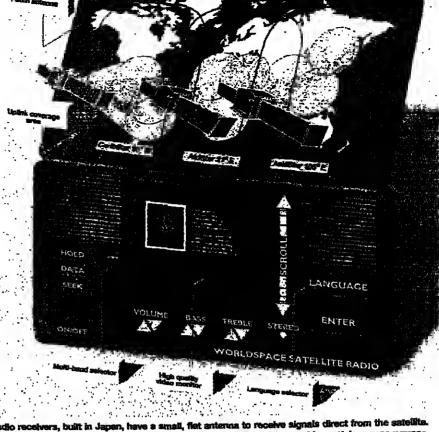
Each satellite will carry eix transponders, transmitting through L-Band amplifiers. Sound from the broadcaster is subjected to digital compression using the MPEG 2.5 Laver 3 coding algorithm and transmitted through a small satellite dish to the satellite in its geostationary orbit 24,000 miles above the Earth.

Programmes will be trans-mitted from the satellites in 40MHz of the L-Band (1452 to 1492 MHz), the range of spectrum which Worldspace was awarded in 1992. The L-Band is now favoured by most countries over AM and FM as the most suitable for digital radio.

espite a chorus of scepticism from the broadcasting industry when the project began, Worldspace claims the technology has now been proved to work in simulation tests range of information ser- at Alcatel's Toulouse vices, education and enter- research and development

Only 20 per cent of the a small flat antenna to capacity has so far been alloinformation service, will take 23 channels to broadcast in six language Worldspace will be keen to

Uncertainty about how the



distributed has generated speculation that some countries could reject the service as 'too American', while in others governments might seek to exploit it for propaganda.

But around 10 per cent of the Worldspace channels are humanitarian purposes, such as improving basic education and literacy and supporting health services. In April, 17 African minis-

space and gave support to project. The service could help countries prone to emergencies caused by natural disaster because of digital radio's advantages over short-wave radio of clarity and consistency of

technology begins to recede, questions about the commercial viability of the project come to the fore.

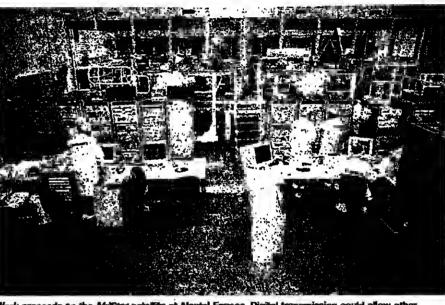
rest of the channels will be ters of education met World- radio has a great future and has not been obsoleted by television or the Internet. "Radio goes to places where TV doesn't," he says. "There are a billion radios in the developing world, three times more than televisions.

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fast-track

But without any opportu-As scepticism about the nity to conduct market research into the likely demand for the products, the success of the project rests heavily on his vision and his



Work proceeds on the African satellite at Alcatel Espace. Digital transmission could allow other services such as text, fax, e-mail and message-paging to be added

# Make a few comparisons. Draw your own conclusions.

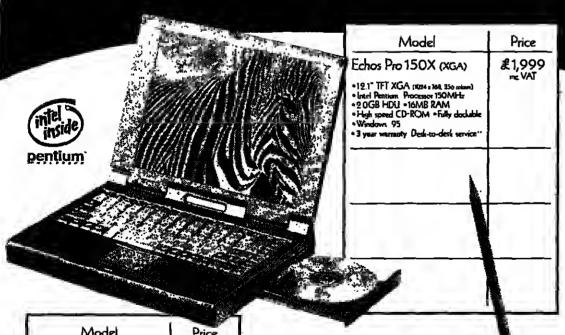
WorldSpace founder, Noah Samara, a naturalised American, was

expected to be reserved for humanitarien purposes. Universal

access to the service 'will help abolish information poverty' in

developing nations, he says

born in Ethiopia. Around 10 per cent of WorldSpace channels are



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DIGITAL TV AND NEW MASS MARKETS . By Geoffiey Naim

# The barriers are coming down

While observers claim that 'digital technology is the future of television,' consumer-demand may remain weak until suppliers are able to demonstrate compelling benefits

vergence of the PC with the For a glimpse of how the TV and create new mass new market dynamics may markets for services such as Mork look no further than Internet access, digital con-Spain, which has started two tent and interactive programming. But for this digital dream to happen, the IT and media industries must demonstrate the benefits of digital television to a largely sceptical market.

Digital technology is dismantling the barriers that have traditionally kept 1T companies, telephone operators and media companies apart. With the arrival of digital TV this process is likely to accelerate.

"Existing Industry structures will be torn apart and new entrants will start up, resulting in additional complexity in the market," pre-

igital televiaion dicts a report on digital could hasten the broadcasting from the UKlong-promised con- based consultancy. Ovum

> digital satellite TV services in 1997. The most recent, Via Digital, was launched in September and achieved over 128,000 subacribers in its first month - a world record, according to the Via Digital consortium, which includes Telefonica, Spain'a former telephone monopoly, the state-owned terrestrial broadcaster RTVE and Recoletos, a media group owned by Pearson, publisher of the

Digital technology allows broadcasters to provide a wider range of channels with programming and interac-better picture quality and tive aervices that could

tal plans to offer more than 80 channels, including payper-view formats for films and sports - a much greater choice than Spain's four national terrestrial broad-

However, more channels does not necessarily increase demand. In markets with many TV channels, the top four channels typically still take over 70 per cent of all viewing, according to the markat research company Euromonitor.

casters can offer.

The switch to digital TV is also expensive. Via Digital has spend Pta 4bn (£16m) on technology for its broadcast centre in Madrid that beams digital content up to the Hispasat satellite. Viewers also have to buy new hardware either a set-top decoder or. in the future, a digital TV. Broadcasters are thus keen to use digital TV to offer higher value aervices that are not possible with traditional analogue broadcasting, anch as pay-per-view

banking and ticket reserva- new phase of growth to the

"Digital technology is the future of television," says Pedro Pérez, chairman of Via Digital. "It multiplies content and makes full interactivity possible, such that the TV will soon become the favourits medium for obtaining information, games, shopping and all types of

But these services are today largely non-existant and analysts say consumers are reluctant to spend money on unknown and unproven benefits. "Consumer-demand will remain weak until auppliers are able to demonstrate compelling benefits," says the Ovum report.

The consultancy estimates it will take at least five years for consumers to warm to the new technology. However, grow rapidly, and in ten years' time, few consumers will complain if analogue

television is withdrawn.

TV market but it also challenges the telephone and cable companies' plans to deliver multimedia over their networks. Broadcast digital TV allows Internet access providers to bypass bottlenecks on the terrestrial networks and beam bandwidth-hungry Web pagaa direct to consumers' PCs.

In September, Microsoft announced its WebTV subsidiary was developing a settop box designed to download Web pages via broadcast digital TV.

Microsoft's digital strategy originally hinged on using cable networks to offer high-speed Internet access and so bypass the telephone companies. Its recent \$1bn purchase of a stake in Comcast and last month's offer to buy TCl, the largest US cable company, seemed to confirm this view.

But countries such as the UK, Italy and Spain have under-developed cable networks - and elsewhere. cable operators have scaled

able to cope with the interac-

them bave problems manag-

ing phone-ins," says Nick

Eyre, business development

manager for broadcast and

being called content aggrega-

tlon - bringing TV together

with facilities such as infor-

mation services and home

shopping, regardless of geo-

Digital technology bas

already revolutionised many

areas of the media - from

desktop publishing and print

processing through to video

Until now, the means of

distribution have remained

Weh TV is going to change

graphical area," be says.

"The key will be in what is

media at Logica.



now in vogue. The digital versatile disk (DVD) and advanced digital tel a big phase of growth to the home or

analogue networks to handle digital content. Ovum predicts analogue cable operators in the UK will start losing subscribers from 2001, initially to digital cable but later and in greater number to digital TV.

Digital terrestrial broadcasting is due to start in the UK in late 1998 and will become a significant market force in 2001, Ovum believes. Whether digital TV arrives via cable, satellite or a terrestrial broadcast is ultimately irrelevant to most consumers and content pro-

far more important issue is the hardware that will be used to tinnal broadcasters will be bandle digital TV in consumers' bomes. Broadcasters and tivity. Indeed - many of consumer electronics firms promote digital TV as a better viewing experience with higher resolution images. improved audio and greater choice. They see high-defini-tion digital TV sets ultimately replacing the set-top boxes today needed to received digital signals on an analogue TV.

By contrast, computer manufacturers wants the PC not least convincing sceptlto deliver digital TV, claiming it is better suited to interactive applications and already bas the processing power and memory needed to handle digital broadcasts.

Barlier this year, Compaq, Microsoft and Intel formed relatively untouched, but the DTV Team to promote this vision and develop the technologies needed to make



A very different world: 61 years ago, this Ekco-Scophony TV receiver took pride of place at London's Radiolympia in 1936

it happen. The group faces between the future TV appliseveral hurdles, however, ance and PC technology." cal consumers to spend designed for watching TV.

people will choose to watch TV on a small PC screen while sitting at a desk," admits Robert Stearns, Compaq's senior vice president capabilities in all new PCs for technology. "But there and the first such products will be a strong relationship are due in late 1998.

The DTV Team envisages different types of DTV-based \$2,000 on a device clearly not PC and TV appliances to address varying consumer "We don't believe most needs and budgets, including low-cost devices with a similar price to an analogue TV. But the group's initial focus will be on including DTV

WEB TV • By Philip Manchester

# marriage full of promise

Net-enabled television will open up a new world of interactive services

The marriage of computers and telecommunications through the Internet is now well

and broadcast media. Earlier this year, the two main global players in the Internet market - Microsoft and Sun Microsystems made significant acquisibeyond their traditional territories. Microsoft bought WebTV for a staggering \$425m in cash and stock and introested \$1bm in Comcast, the US's fourth largest cable television company. Sun bought Diba, another Web television company and -turned it into a new con-

sumer technology group. Both companies are anxious to occupy and dominate one of the most promising and potentially enormous technology markets of the future - the market that brings traditional broadcast television together with the Internet.

rvers.

mind

If the projections are correct, almost everyone who has a television today will, in a few years, look at the Internet through a domesticstyle television. They will be able to access virtually unlimited 'content' both in the form of traditional Web

act' with them.

ket taking off relatively slowly over the next two vears and then accelerating after the year 2000.

forecasts only 100,000 bousebolds will have a 'Net-enadvanced and attention is abled TV this year. By the shifting to a different kind of end of 2002, it predicts this convergence; the Internet number will bave grown dramatically - to 14.7m. "This is the information

superhighway - and it is here now," says Chris Marjara, European marketing manager for Scientific tions and investments Atlanta, a US specialist in the set-top boxes which are required to let a television access the Internet and the World Wide Web. . .

"We see it opening up many new types of application from videoconferencing and tele-medicine to education - wherever you want to combine TV with text and graphics and interactivity," Mr Marjara continues.

Promising though it is, Web TV is not a straightforward technology, however: there are two main approaches - polarised around either Microsoft or Sun Simply stated, the Microsoft approach aims to turn the PC into a television. Sun's approach is to turn a standard television into a

It is too early to say which of these two approaches will triumph. Both claim to be based on 'open' standards although in neither case kat'a willingness to pay for

TV streams from their sofa adopted. In August, Microin the living room and inter-soft published details of what it calls a Broadcast US market analysts at For- Architecture - based on the rester Research see the mar- new versions of its Windows operating systems dne for release next year. The architecture includes recognised

standards such as TCP/IP In the US, for example, it and Hypertext Mark-up Language (HTML) - the established standards for the Internet. But it also relies on Microsoft's Active X and specifies the Windows oper-

'Net-enabled

information

TV heralds the

superhighway and it is here now

ating system software. By contrast, Sun has based its software on the Java language and claims it is 'completely open'. But while Java is widely-accepted by most manufacturers, one very significant supplier - Microsoft - is moving away from it, to the point where Sun recently. brought a case accusing

Meanwhile, there are other issues to be resolved. The transmission infrastructure for carrying TV signals is still uncertain with a choice between cable TV and high-speed telephone lines. Charging tariffs are still not clear - nor is the mass mar-

its contract

pages and broadcast digital have these been universally what, at the moment, is a TV, I am not sure that tradivague promise of the benefits of unlimited number of digital TV channels.

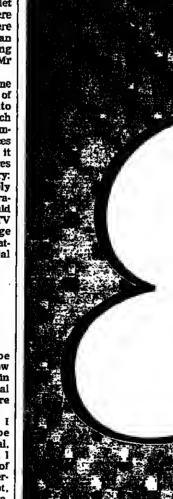
Cable currently seems to offer the best option - at least in markets where it is established. But the advent of low-cost, high-speed ISDN telephone lines could tip the balance back to the telephone system. Scientific Atlanta is focus-

ing on the traditional cable TV market - mainly because It offers an infrastructure capable of handling the large amounts of data transmission associated with TV. The existing phone network is still not fast enough to produce an acceptable TV sig-

"We are using the cable infrastructure because it has the bandwidtb - 1.5 gigabytes a second. It is a great opportunity for cable companies because they can take their core customers and let them get at the Web. There is plenty of content out there already with more than 400,000 developers building Web material," notes Mr Marjara.

It will, however, be some time before the promise of Web TV is converted into revenues for companies such Microsoft of not honouring as Microsoft that have committed significant resources to it. When it does happen, it will doubtless send waves way beyond the TT industry: "I think It is probably

about 18 months away. Traditional broadcasters should be worried because Web TV will be different carriage medium to compete with satellite, cable and terrestrial



INNOVATORS IN THE NEWS . By Geoffrey Wheelwright

video signals.

# Fast-track Web company

Rob Glaser of RealNetworks is called 'king of Internet video and audio'

The experience of what be terms "wild weeks" are not uncommon for energetic Rob Glaser and his company, RealNetworks.

Mr Glaser is chief executive and founder of the company that produces the most popular software for "webcasting" live video and audio over the Internet. His company, until recently known as Progressive Networks. has enjoyed skyrocketing success with its RealAudio and RealVideo "streaming" software since it was established in 1995.

Among its customers, RealNetworks also counts a wide range of media companies, including the BBC, the ABC television network, Fox News and US National Public Radio, as wall as other software companies, including Microsoft - Mr Glaser's former employer.

By the end of another "wild week". Mr Glaser had planned an initial public offering (IPO), changed the name of the company (from Progressive Networka to RealNetworks). acquired another internat company (Film.com) and struck deals with two of the world's biggest pop music groups to host their concerts in cyberspace. And that week was not so unusual for one of the agreement with MCI to cre-

calls from the managements of the Rolling Stones and U2 were on Glaser's mind. The 35-year-old king of Internet other kind." video and audio had done deals to broadcast the con-

Mr Glaser announced a deal ican tour, while U2 was put- the time he left in 1993, be with Microsoft to have his ting plans in place for a con- had seen Microsoft grow company's RealAudio and cart from Sarajevo, Bosnia. from a minor participant in RealVideo software built "It was amazing to see the a new industry to a global into Microsoft's new Internet two biggest touring bands colossus in the software Explorer 4.0 Web and an wanting to do the same

thing in cybarspace," be says, as his recalls his conate a high-speed "backbone" says, as his recalls his con-for broadcaating Internet versation with Jagger. "I was surprised at how com-But in late September, petitive Jagger was. And yes, it was another wild our destiny not to have any Perhaps it was that des-tiny which linked Mr Glaser

certs of both bands - and to go-shead high technology met Mick Jagger in the pro- companies back in 1983, cess. The Rolling Stones are when he joined Microsoft as promoting their North Amer- a fresh-faced 21-year old. By



world's fastest-track. Web Rob Gleser, founder of Resilvetworks: he looked at multimedia companies. In the summer, technology with a fresh eye - and discovered a winning concept

from a minor participant in

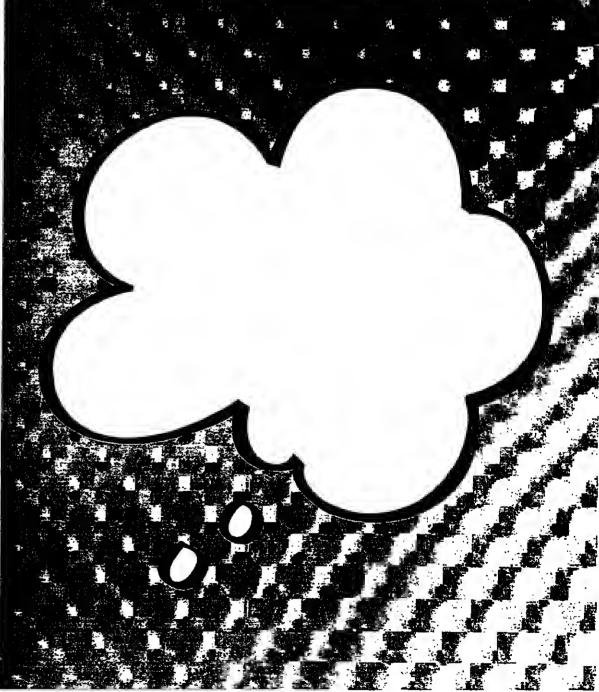
"But after 10 years, I wanted to get out," be recalls. "It was for personal, 'life-goal' kinds of reasons. I then apent a couple of months travelling to Gerweek - but it seems to be many, Greece and Egypt, trying to regain perspective. Microsoft is such a vortex that it was reassuring to dn that. Later, on my travels. when I viewed the pyramids, I saw aomething that bad existed for 4,980 years without Microsoft." Returning bome, Mr

Glaser worked with high technology-based non-profit organisations - including the Electronic Frontier Foundation, run by Lotus Development founder Mitch Kapor, who talked to him about the growing importance of the Internet. It was during this time that be first heard about Mosaic, the world's first full-blown Web

Along with others, Mr Glaser was stunned by the immense opportunity of the Web browser - and, more importantly, the potential of the Web itself. And as with many early Internet users. his thoughts about the potential of the Web ware very much coloured by his experiences.
Mr Glaser's experience at

Microsoft was in pioneering efforts around interactive television, working with

Turn to next page



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COMPUTER BASED TRAINING . By John Kavanagh

# Less time in the classroom now

Computer-based training is no panacea, but it complements traditional teaching methods, reducing costs and tutorial time

nformation technology that computer-based courses has brought new life to are cheaper than classroom do-it-yourself learning. replacing books and letters with a multimedia experience and discussions over the internet.

Yet users are by no means ananimous about the benefits - or even about how computer-based training should be used.

The latest methods are gradually catching on. Research by the UK's Industrial Sociaty shows that almost a quarter of computer and personnel managers now prefer computerbased training, compared with 12 per cent last year. A separate study by Benchmark Research for the training company, Learning Tree Intarnational, found just over balf those questioned expected it to become "a key training medium".

Researchers differ over precise growth figures but generally adopt bullish views. IDC says computerbased courses will account for 35 per cent of training by 2000. Key Note sees 30-fold growth over the next four years in the UK, from 5.5 per cent of the market by value this year to 28 per cent in 2000 and 43 per cent in 2001. These predictions have extra hidden significance, in

mangled messages, he gave

up, saying: "Our systems

this could about to change,

according to industry ana-

lysts at the Gartner Group.

Senior consultant Charles

Abrams who runs the Inte-

long before all sorts of docu-

He says key trends in doc-

ments are fully integrated.

ument management are:

just aren't compatible."

sessions, end a single CD-Rom product can be used by many people. So if this method accounts for a third of the market value by 2000, the number of users will probably be a much higher percentage.

Whatever the growth, it is potentially big enough to have tempted big software companies and consultancies into this business alongside established traditional training companias, which are also moving in to protect their future.

Computer-based training takes two main forms:

□ Multimedia courses are bought as CD-Roms or downloaded from the supplier's Web site on the Internet or across a company's intranet (an internal private Inter-

A course on a word processing or spreadsheet software package might start at £30 for one user, with discounts for many users cutting the cost dramatically. Sucb courses typically include periodic tests to check a person's progress; they might also take users to different materials, depending on their knowledge. Some anppliers also provide software for browsing

courses across an intranet. Dave Podmore says tha flexitesting knowledge to belp people pick the right course, and keeping track of who has done which course, and their test results. ☐ The Internet offers both

an electronic version of correspondence courses and a CD-Rom which can be used compromise between self-study and traditional classroom training. Users can download multimedia self-study materials - or use books or videotapes - and join on-lina class discussions, using their PC keyboards, at set times. Written work and exercises can be sant for marking and raceived back with com-

Costs are again less than for traditional courses: for example, a course on Microsoft's Windows NT software through the UK's biggest IT training company, Peritas. including self-study materials, online discussion and e-mail exchanges with the tutor, is 12 per cent of the price of the same course run over 10 days in a classroom excluding accommodation

ments by e-mail.

Cost is a key benefit - and not only the cost of the course itself.

British Telecom, the UK'e main telecommunications operator, is moving increasingly to multimedia training for skills of all types after saving £2.3m on a 600,000 in-house development of sales courses. Online training manager

company, Vertex Data Science, also points to flexibility. The company has just signed a 335,000 contract over three years with CBT Systems for 200 courses and software to manage them across Vertex's intranet. The deal works out at around 2275 a year for each of the company's 400-plus IT staff.

ing could typically be done most cost-effective for reakilling a large number of people quickly, from tradi-

ruption, because staff are

not away for days on end,

but can study when conve-

nient - including at home if

necessary; consistent quality

and a consistent message;

increases of up to 40 per cent

in retention of information;

reductions in the cost per

head with every use; little or

no supervisor or tutor

involvement; and impartial

testing, marked automati-

Even so, computer-based

training is by no means a panacea. In the Benchmark

Research survey for Learn-

ing Tree International, 80

complements existing meth-

ods, rather than replacing

Frank Kales, worldwide

general manager for training

at IBM, strongly supports

He adds that the travel tional systems to cliand hotel costs of one person on one course cover the cost ent/server," says training of a PC soundcard and manager Andy Birbeck. again and again.

in three.

"The new arrangement gives greater access, across The facilities manage our intranet from a desktop PC or a laptop via a modem, to courses whenever and wherever they're needed. This allows far more flexibility, which especially suits us, as staff are across a number of our own and customer Other benefits claimed for computer-based training include reduced business dis-

Frank Kales of IBM:

"In 1995, we found comput- this viaw, which is also bility means five days' train- er-based training was the endorsed by the Key Note

"Computer-based training is great value for generic overviews, but if yon're using a system every day, you need proper training to ensure good, practical know-ledge," he says.

"Computer-based training can significantly cut the time spent in the classroom: for example, from two or three weeks to three or four

Mr Kales disagrees with the idea of computer-based training baing accessed much like a database and used for just in-time training or even as an on-line manual, referred to only when needed rather than studied from start to finish. Dave Podmore at British

Telecom, however, supports this notion and says it is leading to a rethink of training needs: "In IT, for example, you don't need all the facilities of a package immediately. You want 20 minutes' training when you come to use them.

Research has shown that facilities of office software and therefore arguably do not need to study an entire per cent of managers says it package.

There is also still debate about the whole value and role of computer-based training. Tony Miller, training manager at UK savings company Liverpool Victoria



Staff at Vertex Data Science can access IT training from any PC via the company intranet, eliminating the need to travel to a com. CET Systems is providing 200 courses for Vertex

Friendly Society, says it be introvert." he says. appeals only to a small group - introverts, mainly omen aged over 35 - and could actually alienate key

He told this year's Personnel and Training Conference that his study of the society's staff "casts doubts on the blind belief that everybody is happy to sit at a PC work through a pack-

Mr Miller said many comstaff typically use no more panias now actively than 10-20 per cent of the recruited extroverts - and the growing use of CD-Roms could alienate the very people that employers ented most of all

This view is rejected as "preposterous" by Paul Henry, European vice-president of CBT Systems. "I'm quite an extrovert, but when I sit alone at a PC I tend to

Mr Henry adds that com-puter-based training is not

necessarily always the best in all cases - for example. for personal communication skills.

implier:

STATE OF MALL WATER A PAR

Drawbacks which are more widely accapted include the fact that products cannot answer every query; unlike a live tutor; the greater status attached to classroom courses and the risk that CD-Roms will be seen as training 'on the cheap'; the likelihood of interruption if users study at their own office desks; and especially, the problem of motivation and self-disci-

As Mr Kales at IBM pnts it: "A CD-Rom can provide good graphics - but the core question is whether you can force yourself to stick at lt."

But Roger Whitehead, direc-

### The day of the digital enterprise Hong Kong and you need that report - now. Your amendments were supposed

to be with the client yester-Within five years, 75 per cent of business information in the developed world will be stored and used electronically day. If only the client had document-centric informaa computer network - will says Mr Abrams. These doc- agement is growing. The For example, when a stage of e-mailed it - bnt after three

Mr Abrams describes document-centric information as An everyday story of docu- any information stored ment mismanagement. But within an organisation from bill. Much of this information is currently on paper. "Within five years, 75 per cent of information in the grated Document Output developed world will be Management (Idom) pro- stored and used electronigramme believes it won't be cally." he predicts. ☐ Increasing document

lifecycle automation: Increasing digitisation turning a document into bits

make it possible to automate more of the stages involved in document production. This will bring "enormous henefits," says Abrams, Today, 25-35 per cent of knowledge workers' time is organise and ontput it. When more of this process is antomated, productivity will leap," says Mr Abrams. ☐ The rise of the intelligent

Starting next year, 'intelli-□ The rapid digitisation of of data that can be sent over gent documents' will appear, integrated document man-

uments will be able to tell your computer how they want to be displayed, taking into account your preferences, such as the type size you like to read, "Further on, we'll see tha developspent integrating and down- ment of the virtual doculoading information, trying ment, which is nothing but a to find it, then transmit, set of instructions until the user needs it."

> internets) or the Internet to fetch information and produce reports.

number of Idom 'seats' workstations where you can carry out integrated document management - will increase from 4m today, to 48m by the year 2002, says the Gartner Group.

Applications in financial sector These documents can be A typical Idom seat today used on intranets (private

is in a building society where the whole process of approving a mortgage can be managed electronically, once Meanwhile, demand for

the process has been comnext person in the sequence. To date, integrated document management is mainly found in structured jobs such as handling an insurance claim, getting a new

nies are already trying to create infrastructures that

> can meet all their cial transaction records (40

support it, yet no single ven-

per cent), work schedules (29 per cent) and order processing (19 per cent). Yvette Randriamalaza, marketing manager at Olsy UK, says that technology is helping administrative departments deal with and record client correspondence: communications on paper, by fax, phone or

e-mail are digitised, indexed automatically and stored on a computer for immediate retrieval, creating more efficient, responsive organisa-

Document management technology is also coming. into its own as telesales centres evolve into call and correspondence processing cenintegrate correspondence with customer information received over the phone," says Ms Randriamalaza.

Good document .management integrates the followpleted, the document will ing paper documents, for automatically be sent to the example, through optical character 'reading' technology; electronic forms; search-engina software; workflow software; integrated document archive and retrieval systems; indusdrug approved or granting a try-specific applications; loan. But Mr Abrams in-bouse and external pub-believes it will start to be lishing; printers, fax used more widely. "Compa- machines and photocoplers.

Suppliers are gearing up to provide integrated document management and documentenabled vertical (Diva) appli-Key areas for document Obstacles include competing bundling their product with management, according to applications programming Internet software, such as an Olsy UK survey of 101 interfaces (APIs). These are Netscape Server." blue chip companies, are cli- a set of rules for programent correspondence (men- mers to adhere to when tioned by 69 per cent), finan-cial transaction records (40 out standard APIs, different programs do not work well for managing aircraft infortogether.

"Trying to create a set of. document life-cycle is a major challenge for a user," . says Mr Abrams.

Changing shape of the market

The integrated document management market can be broken down into several areas. At the top end are companies such as PCDOCS, Documentum, FileNet and OpenText with solutions for document-intensive industries such as pharmaceuti-

Other companies such as Microsoft, Lotus, Sun, Net-scape, IBM, ICL and Novell are also involved in the document management market.

tor of the Office Futures consultancy, believes that a lot of document management is happening by default. "The Internet and intranets have lowered the psychological barriers. Now document management is just included in an intranet as an extra feature. For example, Oracle's InterOffice software costs \$55 for a standard electronic mail user: \$395, if you want document management and workflow as well. It works as a mediating layer between the user and the Oracle database."

Some office workers are using document management without even realising it, adds Mr Whitehead, "Document management compacations, says Gartner Group. nies such as Open Text are

One customer is United Airlines, which will be using OpenText's Livelink WorkS mart to improve its system mation. The suffware can be used with a standard Interservices for the entire digital nat browser. Oracle's Hat trick - also designed for Internet browsers - is even more compact. It provides editing and other features: all within two megabytes of Java code.

> "All the really big sites such as pharmaceuticals companies - have document management software already," says Mr Whitehead. "The market will only be there once document management hecomes an everyday tool that can be used from anywhere."

□ Charles Abrams is speaking on document management and publishing at the Gartner Group's European Seminar in Cannes this

### Concept birthed in a Eureka moment 1993, interactive TV had no bootstrap model, [i.e. no model for getting started]. whether this was really a or whether he was even medium about static experience and document deliverage. "My bias was that, in From page 13: large US cable TV concerns, model for getting started]. "I had used the Internet ery," he says. "And I remem-1993, if you wanted to build such as TCI, to arrange trials and test technology. As back in college, but Mosaic bered that, generally an interesting company in vice-president of multimedia speaking, for an equivalent showed the power of using the horizontal software busiand computer systems, Mr the network as a bootstrap level of quality, you'd need ness, it was a dumb thing to model. It meant that one Glaser bad become conleave Microsoft," he recalls. around 100 times the bandcerned about "how the application (such as a Web width (capacity and speed "But the thing that flipped whole idea could be made browser) could then be used us from a let'e look at the over the network] for video

real" (at least, as it was constituted in the first generation of TV set-top box-based interactive TV systems). "I looked at all of that istics as we were talking about [in the interactive TV

with a fresh eye," says Mr Glaser, recalling his first impressions of Mosaic. "I was open as to whether or it would happen, but there was a high ratio of hype to sub-stance and a set of competitive dynamics that did not operate like the computer industry," he says. "All of running at 14.4 kbps (kilobits this convinced me that, in per second). "I wondered the new company could use medium of on-demand televi-

as a model for the next through the magic of distributed hypermedia. We could build a set of applications from the bottom up that had many of the same character-

sector]." Mr Glaser's "Eureka" experience came as he pon-dered the technology behind the modems of the day - the fastest of which were then

as audio." The amount of bandwidth

on a 14.4 kbps modem was about 1/100th of what was needed for video CD-Rom [an area in which Glaser had

the vision to build a company to provide "audio over what kind of business model

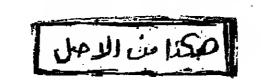
technology and see what happens' to actually introducing RealAndio was the belief that the Internet was different and could be a "bootstrap model" that would heen heavily involved at dramatically change the Microsoft] – "so I started dynamics. You really could work on it, based on that do something different."

And the rest, as they say, Although Mr Glaser had is Weh history. RealAndio he vision to build a com- was a huge success and was followed over the past year by RealVideo - which have effectively brought the

infancy, it appears to have the potential to grow just as fast as RealAudio in both quality and popularity.
When RealAudio was first

offered, it was a bit of a "hit and miss" affair with sketchy "reception" and suffered from "time out", resulting in chunks of sound being lost. But with the use of a good modem, it can be as good as CD-quality with clear, crisp stereo sound broadcast digitally from the Internet. Similar improvements are axpected to RealAudio, which already works well on high-speed cable modem or ISDN lines, but is still similar to early RealAudio when used on older, alower modems,





REMOVABLE STORAGE . By Geoffrey Naim

# Suppliers leapfrog out of a sleepy backwater

Developers of the catapulted lomega to suc- disk. They are highly stable a CDR drive, it cannot be digital versatile disk (DVD) hope to avoid a fierce 'format war'

ter of the IT industry. is going through a period of unprecedented change. Innovative storage formats are fighting to replace the ageing CD-Rom, tape and floppy drives in tomorrow's computers, and the increasing use of digital technology in consumer products creates new markets for storage vendors. Today's hard disks can store gigabytes of data but as fast as the capacities grow, users always seem to innovation, consumer-style need more disk space.

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Traditionally, there was pricing. no easy way to increase a computer's disk capacity, save installing a bigger disk - a costly and tricky operation. But in 1995, the US company, Iomega, lamched the Zip drive, whose simplicready market with storagehungry computer users and

ver the last ten

showing tremendous

which states that

months.

years, hard drive technology has been

1997, Komega's sales rose 51 magnetic disks and more emovable storage, and simple method of increasing a computer's data storage capacity. Each removable disk costs just £10 and can store the equivalent

of 70 floppy disks.
Iomega followed the Zip drive with a bigger-capacity, higher-performance version, called the Jaz, capabla of storing 1GB. Syquest, tha established leader in removable storage, was caught offguard by Iomega but has fought hack by copying lomega's strategy of rapid marketing and aggressive

The company's latest removable disk product, the SyJet, offers a large L5GB to be pressed in a factory capacity for just £280 and its and the data they contain performance is close to that of a fixed hard disk.

Magneto-optical (MO) ity and low price found a disks offer yet another storage option for users who have outgrown their hard

and thus ideal for archiving, In the first six months of though they are slower than trast, is designed to be used been used to play CD-Rom titles or install software, many more applications are possible with the new

> now entering the market. Rewritability and recordability are revolutionising the way people use CDs and demand for CD-R and CD-RW media is growing rapidly," says Adrian Lawson, marketing manger for storage products at Hewlett-Packard. CDs can store 650 MB and provide a robust and relatively cheap alternative to removable magnetic

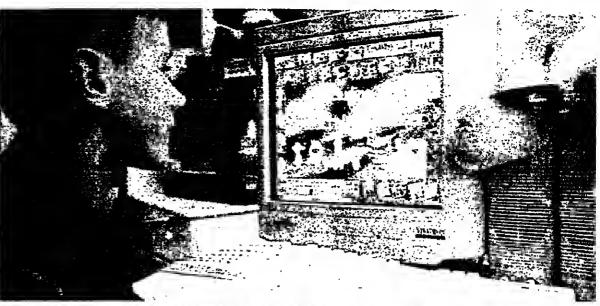
CD-Roms traditionally had to be pressed in a factory could not be altered, but the CD-R and CD-RW formats overcome these drawbacks. The CD-R is a permanent medium and once data is "burnt" on to the disk using

changed. The CD-RW, in conmore like a removable magper cent to \$762m. The Zip expensive. Tha CD-Rom netic disk and the disk can drive, which casts £120 and drive is today a standard feasing ture of desktop computers times using a CD-RW drive. netic disks, provides a cheap and while traditionally it has held back CD-R in the past but prices have dropped dramatically from more than £1,500 in 1996 to less than recordable (CD-R) and £300 today. rewritable (CD-RW) formats

CD-RW is a much newer format but the first drives and media are already available at prices similar to CD-R. According to researchers at Strategic Marketing Decisions, the worldwide market for CD-R and CD-RW disks is expected to grow from 205m units this year to nearly 350m in 1998. The 650MB capacity of a

CD may seem sufficient for most applications, but the industry is poised to launch a higher capacity optical disk, called the Digital Versatile Disk (DVD), which it hopes will be widely adopted by the consumer electronics and IT industries.

"DVD is going to be the 17 GB. Like the CD, the DVD



Digital storage technologies are opening new markets in the home entertain

The first to be launched is

DVD-Video, which Holly-

wood hopes will replace the

video cassette as the stan-

dard for pre-recorded films.

The first DVD-Video titles

and players are due in US

stores before Christmas.

DVD-Video will be followed

oext year by DVD-Rom.

hridge between consumer and computer applications." says Yoshito Tsunoda, a representative for Hitachi in the DVD Forum - a ten-company grouping set up to hopefully avoid the "format wars" that have plagued the storage industry. It has had only limited success as two members, Sony and Philips. . recently announced they would develop a rival standard for rewritable DVDs. DVDs resemble CDs but will only play oo a DVD

drive which can, however, also play CDs. The basic gets off the ground there will DVD capacity is 4.7GB be a serious effort by PC companies to promote DVD seven times that of a CD but there are variants up to drives," says Koji Hase, Toshiba's general manager

comes in several formats. for DVD products. He predicts 80 per cent of the 100m PCs sold in 2001 will have DVD.

Intel and Microsoft are committed to the new format and Microsoft's forthcoming Windows 98 operating syswork with DVD drives. Last month, three of the

DVD-R and DVD-Ram drives. forum members held an "interoperabllity" demonwhich are aimed at IT applications and correspond funcstration to show that DVD tionally to the CD-Rom, CD-R and CD-RW. media recorded on the drives of one vendor could be "As soon as DVD-Video played on the drives of another. The aim was to allay fears of a repeat of the incompatibility problems that have plagued CD-R, for

ers admit that DVD media is more difficult to make than CDs and Intel, when it tested 40 DVD-Rom titles on 25 systems, found that twotbirds were incompatible. Analysts have once again had to push back their forecasts because of these problems, but they believe DVD will ultimately be successful - "1996 will be a much quieter year [than predicted]. but we are confident that the compatibility problems are well on the way to being resolved," says Julie Sehwerin, chairman and chief executive officer of

market research company.

However, disk manufactur-

HARD DRIVE TECHNOLOGY . By Tom Foremski

# 'Bloatware' drives demand for storage

The fast-growing worldwide market for hard drives will exceed \$75bn in the year 2000, compared to \$34bn this year

increases in performance and in storage capacity, but it receives a fraction of the disk drive business. limelight that advances in "If everything goes microprocessors receive. Yet according to plan and hard drive technology has been improving faster than companies unveil the products we think they will, the celebrated Moore's law hard drive capacities could coined by Intel's chairman increase by as much as 90 emeritus, Gordon Moore per cent this year alone," says hard drive industry microprocessor performance analyst Robert Katzive, vice doubles every 18 to 24 president of US market search company, Disk/

"Hard drive capacity has been growing by more than 60 per cent per year and will continue that way at least for several more years," says David Walling, strategic business manager for IBM's

inch drives that store as much as 5 gigabytes. The invention of disk

TBM invented the disk

drive in 1954 – it was able to store an impressive 5 Mbytes on a disk 26 inches in diameter, a dinosaur compared with today's 3.5

drives was important, since it provided a relatively cheap storage medium with the benefits of random access, unlike magnetic tape storage systems that provide only serial data access. With random access data storage, computer systems could be built with higher performance, something

which is still true today. The market for hard drives will exceed \$75bn worldwide in the year 2000 compared with about \$34bn this year,

as the hard drive market continues to grow rapidly, according to analysts at Disk/Trend. The high demand for disk

drives is coming from all sectors of the computer industry: from notebook computers to desktop PCs. servers and mainframes. Unit shipments are forecast to reach 126m in 1997, compared with 105m in 1996, and will reach 201m in 2000.

Software applications are also getting much larger, driving demand for more data storage. "They don't call applications 'bloatware'

for nothing," points out Mr Katzive. And with the expanding use of the Internet and intranets, plus developments such as digital TV and digital video on demand, there is an ever-growing need for "bit-buckets" - huge banks

of disk drives able to store large amounts of video and other data. As unit shipments increase, the data storage capacity of hard drives is also increasing. In 1996, the market was dominated by 1 to 2 gigabyte hard drives and by 2000. Disk/Trend forecasts that 10

and 20 gigabytes drives will dominate shipments.

"The rigid drive industry is growing at spectacular rates and it will maintain a growth rate that many other industries would love to have," says James Porter, president of Disk/Trend.

IBM has managed to keep its lead in hard drive technologies because of its focus on increasing 'areal' density - the number of bits that can be stored in a square inch of hard disk. Wa are shipping bard drives with an areal density

of 2.64 gigabytes per square

inch and we have also demonstrated 5 gigabytes per square inch in the lab." says IBM's Mr Walling.

IBM recently announced a Thinknad portable computer with an 8 gigabyte capacity hard drive, the largest available on a note book computer, demonstrating how its hard drive technology helps it keep a competitive edge in portable and desktop computer markets.

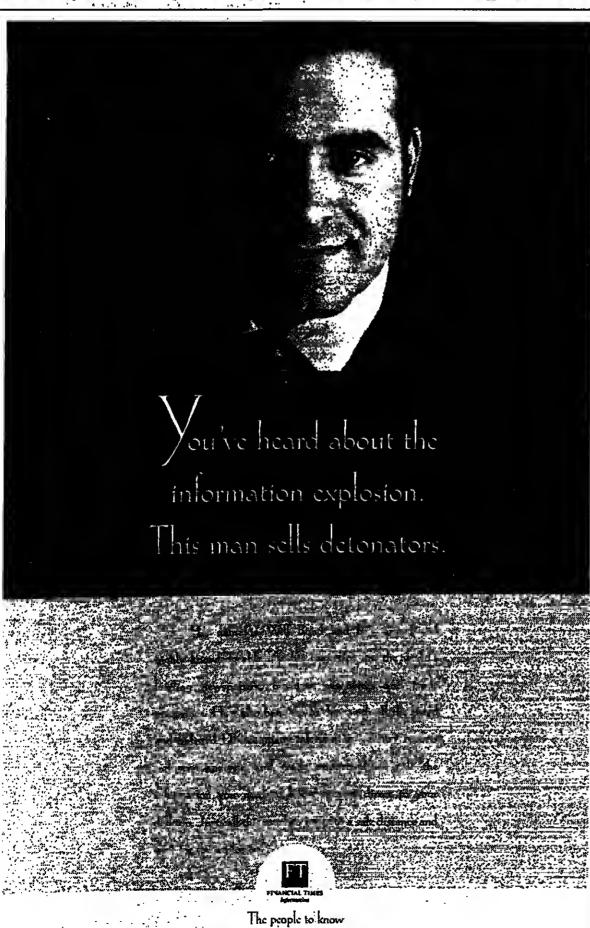
IBM's progress on increasing areal density still has more than ten years to go before it starts to hit

some physical limits, "As you make a data bit smaller and smaller, it begins to be affected by very minor temperature fluctuations at room temperature, so we have to find a way around that or move to new types of storage technologies," says Mr Walling. These could include bolographic systems and nanotechnology, but these are still highly

experimental technologies.

So far, magnetic data storage technologies such as those used in computer hard drives, bave offered the best combinatioo of data storage capacity and performance. Optical data storage has held a promise of high storage capacity at a very low price.

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important in the three tradifourth channel.

Traditionally, direct mail has a reputation for being wasteful in terms of both high costs and low response rates. Now, however, many large businesses involved in this area are setting up data warehouses to gain a detailed view of individual customers. This information is often combined with hought-in exteroal demographic or lifestyle data.

Thus, data miniog tools allow marketing departments to segment groups of customers and develop highly targetted mail cam-



### Sales and marketing systems

Here and on the facing page, FT writers examine the impact of IT in the marketplace

paigns. This is reducing the size of mailings while boosting the response rate.

in the telephony area, the use of call ceotres is likely to extended to allow field sales increase by 95 per cent in the UK in the coming year. according to a new Softworld survey. These systems handie both outgoing direct selling activities and customers' responses to direct mail, (see olso case study, below, right). Again, these call centres are munication with the cusdriven in their direct selling tomer is that it raises the by the data warebouse and need to synchronise data

# is playing a crucial role in finding - and keeping - customers. It is becoming more that is becoming more that the country is playing a crucial role in finding - and keeping - customers. It is becoming more that the country is becoming more than the country is become the country in the country is become the country in the country in the country is become the country in the country in the country is become the country in the country in the country is become the country in the country tional sales chaonels of direct mail, telephooe and face-to-face sales, whilst adding electronic communication via the internet as a market channel.

In the telephony area, many more companies are now making use of call centres to handle direct sales and customer responses, says Rod Newing

the results of data mining. Even face-to-face communication is being made easier through the use of video-conferencing. Whilst the tecbnology and infrastructure is still relatively crude, most sales people rightly sbun using it with people they have never met. However, once the necessary relationships bave been established through face-to-face meetings, video-conferencing can be very effective in saving the sales executive's travel-

ling time.
Electronic communication across the Internet is providing a fourth channel of communication through e-mail and publishing data on Web sites. Even more importantly, organisations are creating extended enterprises by giving their best customers direct access across the internet to their internal corporate intranet and into their main business systems. This allows customers to check availability and delivery times and enter orders directly, eliminating the cost of order-takers. integrated sales and mar-

keting software is also being used to support the sales and marketing department, helping to manage campaigns, provide contact details, track and record customer interactions, track prospect status. manage the pipeline and geoerally belp the sales executives to manage their time and co-ordinate their actions more effectively. Corporate intranets are now being executives to access all their support systems across the Internet. This may be for the cost of a local telephone call, wherever they are in the

One of the challenges of having four channels of com-

between the four channels, ensuring that the same products, specifications and prices are consistent across the channels. This should not be a problem if they are all driven from the same central database.

There is also a big management challenge to be faced with an additional channel, because customers

the quality of their weakest channel Although the Inter- mailing with their other net offers enormous opportunity, it is still immature and if not handled correctly could damage brand loyalty which bas been carefully built up through high qual-

ity use of the other channels. We are seeing a move away from first generation direct mailing software,



ners are increasingly fickle, but data mining helps to ensure

to efficiently integrate their mail, telephone and e-mail systems," observes Gareth Hershel, research analyst for technology enabled relationship management at the Gartner Group.

"The data warebouse pro-vides the focal point. And as it is constantly updated, it can cope with the shorter cycle times involved in elec-tronic trading."

A new report (see facing page) indicates that in the UK, at least, data warehousing is still "hopelessly misunderstood" by many marketing teams. However, among those companies that do grasp the significance of the technology, much of the focus of system vendors' marketing is upon the use of data mining software to discover hiddeo patterns and relationships in the data.

Savacentre, the UK hypermarket chain, built a data warehouse in response to a specific request from the siness for better information about customers and products and to belp the marketiog department underetand information derived from its customer oyalty scheme.

We are very much into data mining, as it provides more information about customers," says Bob Jones. Savacentre's systems development manager, "Shopping baskets give clearer facts

than market research, which may provide impressions that shoppers want you to hear. Data mining allows us to focus our services more in line with customer's requirements and actual shopping

IT systems in sales and marketing

Customers are fickle, but datamining helps to ensure that the company meets shoppers' expectations. "The slightest thing can cause them to move to a competitor," says Mr Jones. "Data mining doesn't replace the need for a good check-ont service, but it does help us to focus on keeping regular customers, which is cheaper than gaining new custom-

Clive Burrows, anthor of an Ovum research report on sales force automation, has been tracking the packaged software market for many years. "There is a strong trend for merging between

call centre, sales force automation and help-desk software," he says. "Most packages claim integration, but only the larger vendors have true integration with a common database."

Sales prospect details are transferred from the database and allocated to the relevant sales territory. The salesman is then eble to refer to previous interactions with the call centre of technical problems dealt with by

Sales and marketing software is an area that bas been neglected by the enterprise resource planning vendors. The market started with small geograpbical and vertical market vendors providing a 'best-of-breed' solution, says Jeff Golterman at the Gartner

"Only recently have global

Siebel Vantive, Aurum and Scopus - although Baan, a vendor of ERP systems, has purchased Aurum, and SAP and Oracle are strengthening their own modules, the suppliers will survive because they are offering richer functionality, a stronger architecture and support for the mobile user."

keeping

□ Online Information 97: conference and exhibition: London, December 9-11: see details, page 21.

□ Dialing for Dollars: The Yankee Group's pan-European call centre conference, Nonember 24-26. Amsterdam TeL +44 1923 246 511. fax +44 1923 247 566.

Data Warehousing 97 European conference and November 18-19: details available from Business Intelligence on telephone +44 (0) 181

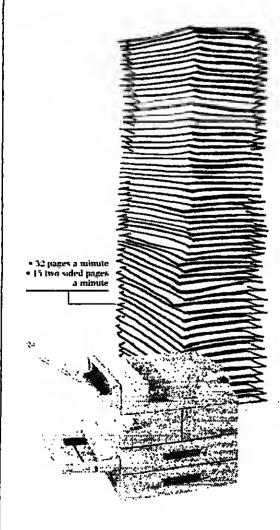
CALL CENTRES . IT industry case study by George Black

# Now Compaq targets smaller users

A longtime PC supplier to big corporations, Compaq launches a new service for small to medium-sized companies "In the past our culture people were five times more

### Xerox DocuPrint N32

On one side, it's the fastest network printer in its class.



THE DOCUMENT COMPANY **XEROX** 

ompaq, the world's needs to match and - if poslargest personal com- sible - overtake the impresputer manufacturer, sive growth rate of directplans to increase its sales selling PC manufacturers, among smaller firms by such as Dell. adopting the most advanced

call centre software. In Scotland, at the company's new ceotre in Glasgow which opened in July - it developer, Siebel.

in the league of the largest information technology suppliers by the year 2000.

To do this it will have to outpace others in the fastgrowing PC eector and 2,500 in the UK, to win over increase its market sbare more users in the SME secamong small and medium- tor, for example by persuadsized enterprises (SMEs), which it defines as those relatively high purchase with fewer than 500 employ- price of its PCs and more at with fewer than 500 employ-

favourite supplier of the a clear advantage. large corporations, with a 20 per cent in some counaround 10 per cent or less.

Its ambitious growth tar-

get made many people in the industry think it was about to abandon its long-established policy of selling only uses a database marketing through indirect channels system from the US software and move into direct selling to the SMEs.

Eckhard Pfeiffer has set a launched a pilot project to goal of pushing his company sell a very limited range of up from fifth to third place products into the bome office sector. For the rest, it has set itself to work more closely with its resellers. It wants to use those resellers, of whom there are

ing them to look less at the

Complex messages of this already made up. market share of more than kind cannot easily be put across in advertisements and tries, but among smaller require it to create much gow call cantre, which is users it is less strong, with a closer relationships with managed by Teledata, Scotebare typically of only SMEs. Compaq realised it tish Power's call centre outhad to get to know these sourcing firm. in particular, the company firms much better and not



### COMPAQ

Ekhard Pfeiffer, president of Compaq, the PC maker, which aims to move up from fifth to of top IT suppliers

of the compaq has long been a clear advantage.

This strategy led to the establishment of the Glas-Glasgow was chosen

work with Teledata and has been that only the big likely to respond to an thought the city would provide it with a pool of suitably skilled graduate labour. There were already a numcomputer industry in the calls as important." The new centre at present

because Compaq wanted to

the UK

ful it could become the pat- in this way. tern for the way the company does business in other

Compaq believes the support of the centre will enable its resellers to do a better job for it and to persuade them to give a higher priority to its PCs when selling to

SMEs. To build closer relationships with SMEs, Compaq decided it was essential to instal a highly flexible and scaleable database marketing every contact with a cus- in July. tomer or prospect and of providing a response fitted

ooes really mattered," says Adam Denton, Compaq's marketing manager. "Now we have changed - and we ber of call centres for the are treating everyone who After a survey of the soft- centre.

ware products available, the houses only 120 agents and company decided on the Siesupport staff but it looks bel system, which bad likely to expand into one of mainly been used for Britain is the first country requirements of a call cenin which Compaq has set up tre. Compaq is among the such a centre and if success- first to apply Siebel software first to apply Siebel software

### Requirements

New user interfaces were developed to meet the different requirements of the inbound and out-bound teams, to make it as easy as possible for all of the staff to use the system.

Compaq decided to set up the centre in March and was able to tailor the software a judgement on the effectiveand pnt its new recruits through a month's training Denton says it is beginning ing system, capable of track- in time to open for business

advertisement if it carried a Compaq number to call than if it had a reseller's number. Advertisements are therefore being re-designed to encourage people to call the It also bouses a channel

support team, whose job it is to put callers in cootact with local distributors, accredited had to be tailored to the follow up and check that the caller has received the service required.

"In this way we can find out much more about what our customers want and if they do not bny from us, why not," says Mr Denton. It is boped that through the use of the Siebel system resellers will get more and better qualifiad leads referred to them and a higher proportion of these will be turned into new busi-

It is still too early to make ness of the operation, but tbe poseibilitiee look It beliaves the centre extremely promising. "It is providing a response fitted ebould belp to boost sales already proving to have been to each individual customer. because trials ebowed that a good decision." he says.

IMPACT OF ELECTRONIC COMMERCE . By Flod Newing

# Prospect of fewer feet on the street

Electronic trading threatens to remove the role of the sales force as an 'interface' between a company and its customers

have what will soon be a buge impact on trade. It is estimated to grow from \$80n this 2002, according to independent analysts Forrester Research, (http:

//www.forrester.com).
Forrester believes that the Internet has the benefit of offering information exchange on demand at any time. It also provides rich dynamic content at lower cost and customised information and services tailored to individual corporate buyers. This all serves to make electronic trade more efficient and cheaper. This is likely to have a dramatic

impact on the traditional role of

tha sales force. But at the relatively lower end of the scale, where the sale is not highly priced and the sales person is essentially an order-taker, they are likely to be replaced by call centres and electronic commerce. "Such people add no value, so they will die out," predicts Mr Chris Mathias. chairman of relationship marketing consultants Conduit Communications, (http:// www.conduit.co.uk or http:// nono conduit-usa.com). At the opposite end of the spectrum, high value purchases

have traditionally involved sales executives in many of the stages of the buying process, including stimulation, needs recognition, information provision, negotiation, decision-making, fulfilment and repeat business.
Data warehouses with

Web-enabled front ends offer the opportunity to take away much of the routine stimulation and needs recognitioo from the sales force. Electronic mail messages can stimulate and identify the need while the Web site can take the burden of information provision from sales executives.

### Power transfer

The drawback to all this is that the sales force may be denied their own information-gathering exercise, carried out in early meetings, which may move some of the power of the sales force to the

Buyers will self-serve with information because it is so easy to do," says Mr Mathias "They won't let the sales people in until the shortlist stage, as it wastes too much of their time. The sales force will lose its role in stimulus and need recognition." Richard Griffiths, principal

consultancy Winchester White, sees the sales force under pressure from their own organisation, as

well. "Around 57 per cent of their time is spent finding prospects and only 13 per cent in a contact leading to a sale. Businesses won't be able to afford these costs and will use electronic means to reduce the expense."

One advantage of this process is that buyers will pre-qualify themselves. By the time the vendor is on the short list, the prospect already has a relationship through the Web site and call centre and is "serious about buying," says Mr Gareth Hershel, research analyst for technology enabled relationship management at Gartner Group, the

independent analysts.
"The pre-qualification is done
and the salesman will have details of previous interactions with the Web site database, if it collects registration information, and with the call centre."

With the Internet dealing with the detail, sales executives can concentrate on using their skills to add value, which will primarily be in negotiation, once they have been put on to the short list. The sales force for this will be much smaller, but much more skilled at negotiation and closing. They will be relieved of their information distribution and groundwork burden. However, technology will help them to deal with more

customers by using diary and scheduling software. Initial face-to-face meetings may even be replaced later in the negotiation with video conference calls.

Clearly, there is still a role for

people in the information gathering stage through links to call centres from wab pages.
"Purchasers will be able to talk to people through the web site, using a microphone on their PC," predicts Martin Shields, senior vice president for global marketing at Sitel Corporatioo (http://
unow.sitel.com), which claims to be the world's largest call centre

"People say the Web site is king, which is nonsense - and you won't do away with people altogether,"

### Need for dialogue

Mr Shields points out that if purchasers come to a Web site with pre-programmed questions, they only receive answers to those questions. "They don't ask any other because there is no facility, so you definitely need to maintain a dialogue with your customers. It is a blend of technology and people and the purchaser will continue to want to have access to both, although the ratios may change."

One problem with excluding the sales force from the early information gathering stage is allowing customers to see price too

early in the cycle, before their needs have been assessed and the benefits of the solution established by the sales executive. There is a danger that customers could short-list the cheapest solution rather than the most cost-effective or one which has the most potential for competitive

advantage.
"It depends on the nature of the purchase," suggests Mr Hershel. "If you just want a commodity PC, you can go to Dell's Web site and get the price and place an order. If you want a high level of support, you can go to IBM's Web site where they won't quote you

This, of course, brings in the whole debate about the role of brand positioning on the Internet which has yet to be put to the test.

Clearly, electronic trading threatens to remove the role of the sales force as an interface between customer by putting organisations in direct contact with their customers. The sales force of the future will be smaller, because the routine field and administrative work will be handled

electronically. "The impact of electronic trading will be brutal in low value sales. but intense in high value sales," concludes Mr Mathias. "In the meantime, the sales force automation software vendors are automating a process that will



# Keeping track of customers

While sales force automation software Canadian contact managehas long been popular, there is also a ment developer Pivotal Softgrowing trend toward the use of handheld computers by salespeople

It has been called by a move toward the use of hanmanagement, relation-ship marketing software and The release of Windows sales force automation. CE 20, the next generation Whatever the name, soft- handheld computer operatware designed to help salestrack of their contact with customers is gaining in pop- leading lights to the contact ularity as its potential to management software arena ease the ralationship to create Windows CE 20 between the customer and the salesperson is realised.

ware can keep a record of when a salesperson last mads contact with a client, speak again, what the content of the conversation was, which products (if any) were sold, how much was spent forces. and, perhaps, why the products were purchased.

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This information is in addition to the basic details of address, phons number, fax number and other essentials that any simple address functions. book/database will handle

management software have GoldMine, and Maximizer America and Europe - several trends have started to change the nature of contact management applications.

variety of terms: contact dheld computers by sales-

ing system produced by ople more effectively keep . Microsoft last month, is encouraging many of the

versions of their products. This is not only because it Contact management soft- bears the name Windows (an operating system on which most contact management mads contact with a client, applications already run) but when (or if) they agreed to also because Windows CE 2.0 provides a number of features that are particularly attractive to mobile sales

These include a 'pocket' to use version of the popular PowerPoint presentation graphics application, the ability to use a colour display and the integration of electronic mail

All these functions make it much more likely that sales-Whils sales of contact people will use a handheld computer in the first place soared in recent years - thereby strengthening the with titles such as ACT!, argument for contact man- the development will mean agement software developers making an impact in North to create versions for Windows CE-based handheld

Evidence that providers are finding the case compel-The first of these is the ling comes in the form of work-based users and auto-

ware, which recenfly decided to create a version of its Relationship Web Client software for use with Windows CE 2.0 based handheld PCs.

The software is aimed at providing users with Internet and intranet (internal . company network) access to the company's client/server contact management application through a standard web browser.

And, when used on a Windows CE 2.0-based handheld computer, the software allows remote sales people, field marketing and support representatives to access and update customer and prospect information, as well as run queries and reports, using a handheld PC, via the

### Secure and easy

customers can use this software on a Windows CE-based handheld computer, combined with Internet access, to provide a secure, low cost, easy-to-use and easy-to-administer virtual wide area network.

Pivotal Software says that that changes made to the enterprise database using its software - such as orders or contact reports filed by salespeople - are instantly availabla to local area net-

included in the Web browser-based software/

The aim is to provide what Pivotal Software calls a "virtual customer knowledge company can use to obtain no-to-the-minute information on product sales and client

The interest by corporations in using handheld computers in this way was highlighted, once again in Canada, a few weeks ago announced that it had sold year. 30 Compaq PC Companion handheld computers to the Canadian retail product merchandising organisation, Sales and Merchandising Group, for use as sales force automation tools.

These Compaq systems are replacing the heavier note-book PCs used by the S & package that comes bundled MG sales force for individual customer retail outlet inventory management, Internet communications, customer contact list development. appointment scheduling and

"While notebook PCs have proven to bs sxcellent continue evolving as custommobile communications ers become increasingly toois, our sales force was finding them too heavy to carry around for what they wanted to do." explains Gerry Henstra, director of Information Resources at Sales and Merchandising.

"Now they can perform

matically sent to mobila dheld computer weighing nsers through a "data syn-chronisation" ntility be slipped into a jacket pocket."

حكدًا من الأعلى

The other hig issue facing contact management software developers is how to best make use of the Interbase" that everyone in the net, e-mail and desktop applications that have become popular, such as browsers and e-mail software. It was these trends, for example, that prompted Vanconver-based Maximizer Technologies to launch its 'Maximizer 97is' for Windows 95. (the 'is' stands for when Compaq Canada Internet Savvy), earlier this

> This product added electronic mail capabilities and Internet integration to the company's existing Maximizer contact management software and also provided integration with the popular Microsoft Outlook 97 e-mail/ with Microsoft Office 97. This meant that users did

not have to give up information that had already been keyed into Outlook to benefit from using Maximizer 97.

Contact management applications are likely to demanding - looking for some form of Internet connectivity, tight integration with e-mail and a measure of presentation graphics function as well as firm coupling with the contact management functions of handheld





RETAIL INTRANET . Cassistady by Michael Wiltshire

## Pioneering system to assist book buyers

Bookstore chain launches an in-store intranet with details of more than a million titles

in what is claimed to be a and where it is." pioneering IT project in the UK retail sector.

network, based on Internet technology - provides live book-stock information to customers. In-store shoppers use kiosks, pictured above, to toteract with Waterstone's database, which includes a million book and CD-Rom

The aims of the project, One reason for the lack of which is already proving popular with customers, are buyer's shopping experience and enhance Waterstone's reputation as an innovative retailer. "We will be closely monitoring customer-response to see bow the project can be developed," says Waterstone's spokesman, well thought-out and imple-Stuart Lawson.

Staff know the intranet as 'Ossian', a name deeply report, call Georgina Ship-rooted in ancient Scottish litsey at KPMG on 44 (0) 171 erature. To attract customof 'pages' on terminal

tion was first set up the field

sales team was very protec-

not want anyone from tele-

sales to talk to them. But

because telesales people

have become more knowledgeable and efficient using the new system, the field

sales team now regards them

as a resource rather than a

Telesales and field sales

people are now able to work

closely together. The field

sales people make use of

telesales to call customers

and give them quotations

and upgrades to their prod-

many of the smaller tasks.

leaving field sales people

free to spend more time with

The two teams communicate

information about customers

For technical support staff,

the system has also been a

great benefit. Formerly, they

used to receive complaints if

they did not know exactly

what products the customer

had purchased - now that

information is more readily

complaints about support

easily via email.

Telesalas has taken on

Vaterstone's, the got anything better to read is also responsible for Water-upmarket book-than this? and answering on store chain, has the next screen with: 'We (http://www.woterlaunched a retail intranet at have. Try our book search to stones.co.uk/), and Waterits new Glasgow superstore, find the book you want - stone's Virgil book database. A search through the data- web sites clients are Somer-

of relevant information, including whether or not the book is in stock plus directions to its exact location in the five-storey store.

Ossian also allows users to review Waterstons's bestsellers, check-out special events within the superstore, browse through a selection of titles that the booksellers have selected for a price promotion, read a history of the to enhance the average book building - or simply find out nity to use Hyperlink's more about Ossianic verse.

The Ossian kiosk system bas been developed by Hyperlink and includes Microsoft's Web technology. Hyperlink specialises in Web page design and systems integration. The IT company Among Hyperlink's other

base quickly produces lists field Stores and the Corporation of London. Commenting John Lambert, Hyperlink's technical director, says "The modular, distributed approach used in Virgil. allowed the development of Ossian in around six weeks an incredibly short period

> and on budget," There is also the opportusound production facilities to add multimedia features to Ossian.

It was completed on time

In-store video is also being considered - Ossian's design added without making software changes.

## Technology still 'widely misunderstood'

Companies' marketing efforts hampered by ineffective IT systems

remains widely missuperstand their perceptions and usage of data it-professionals, according to new research which also it is survey found high shows that marketing teams levels of dissatisfaction with prefer to tackle customer information problems ing marketing needs, but through market research, low levels of awareness respondents blamed the to all relevant information rather than improving IT about the role of data ware-

The report, by his management Consulting, include:

and business development directors in more than 200 UK companies, with turn-overs of between £1.9m to £4bn, about their ability to utilise information within their companies, the effecata warehousing tiveness of the their IT

questioned sales, marketing

existing IT systems in servhousing in supporting of

respondents were totally unaware of the term 'date warehousing'. Only two-infive respondents, were able to define the term correctly. • Only 16 per cent of respondents with a data warehouse had measured its return on investment.

· Fewer than one-in-ten respondents rated IT as "extremely effective" in creating or improving cus-• Eleven per cent of

• In all, 46 per cent of respondents did not consider their information systems to be effective in generating information for marketing

Almost one-in-three match individual needs.

David Stone, principal consultant with KPMG, says it is surprising that marketing professionals have a low awareness of data warehousing. It is still widely misunderstood, but it is the only tomer information systems. available technology that gives decision-makers access ineffectiveness of their IT and also enables them to systems on a lack of infor- interrogate and use that 313 The report, by KPMG marketing. Key findings mation", while 5 per cent information creatively, found it too difficult to rather than just viewing

understanding is the attitude of business towards technology, Paul Baker, a partner with KPMG, comnts: "Business profes als without an IT background are often discouraged by references to IT. But in this information age, competitive advantage is increasingly dependent on

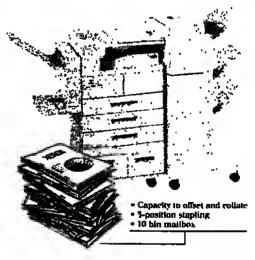
static data, he says

For a copy of the research

- Michael Wiltshire screens, asking: Haven't you



On the other side, it has the production capacity of a high-end copier.



The new Xerox DocuPrint N32 laser printer gives you 'out of the box' connectivity to your network. It prints at a blazing speed of 52 pages e mioute (two sided as fast as 15 pages a minote), making it the fastest network printer in its class. Plus, it less the finishing of a high-end copier. You can send multiple sets directly from your PC to collate and staple in one of 5 different positions\* or output in one of the 10 bins of the mailbox for easy retrieval.

The DocuPrint N32 also comes with free Xerox PrinterMap software, allowing you to prosctively manage all your network printers' - no matter what brand. All this, for the price of a regular network printer. For more information, please call your local Xerox office or visit www.xerex.networkprinters.com Add-on available soon, 'SNMP only, Nevez and DocuPrint N32

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### Vantive system boosts Network General all aspects of fault detection integrating their work with taker. "Tims was of the number of manual processes there, to avoid the chance of

Field sales staff and the telesales team work well together, without complications

software company, says it has boosted a growth rate without an equal increase in the the productivity of its telesales operation dramatically by installing a new system ing. from Vantive.

The company, which had sales of \$250m last year, is network traffic monitoring system. Sniffer has achieved control and optimize the performance of their networks. Based in Menlo Park, California, Network General has the best possible use of this expanded its range to cover new group of 40 people, by

216

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its management.

One of the main problems number of staff, particularly to support sales and market-

Its response to this situadepartment, in order to gain best known for its Sniffer a crucial advantage over competitors who did not have such an arm to their a market share of around 60 business. The aim was to belps network managers to sale and at the same time provide better service to customers.

It was essential to make

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and performance monitor- that of the cristomer support essence for us, I did not such as sending out letters it lapsing. ing it has grown at 30 per and technical snpport want a prolonged assess- to customers when their concent a year for the past operations. Integration was seven years, which has cre- seen as the key to spotting ated some big challenges for sales opportunities and and they were quickly conensuring that they were vinced.

turned into new business. Last year the company decided to invest in a new software system because it had outgrown the capabilities of the system then in use. It could not make sales forecasts, nor could it track tion was to set up a telesales the progress of leads from its

### **Questions**

marketing efforts.

The management had no per cent mainly because it reduce the average cost of idea what proportion of leads turned into business, so it could not properly assess the effectiveness of its marketing programmes. Chief information officer

Jim Whittaker began to study the field for sales and marketing software. "Ws wanted something that worked out of the box - and for a lot of products the marketing is way ahead of the performance - and also something which was scalable and could keep up with our growing number of

In the research Vantive's name kept coming up as the best product, says Mr Whit-

demonstration for our users

"Vantive was a well integrated suite of applications so that we would not have to learn about a lot of different products and then have to integrate them ourselves.

"All our applications now use a single, accurate database which means that whoever is dealing with the customer is able to provide a good service based on all the information about that customer. If a problem is reported, we can tell at once if anyone else has reported

the sams problem." It took 80 days to get the telesales operation up and running and 90 days to instal the system for the technical support staff. The system serves over 200 users to California, Oregon and able to handle many more calls to a day, so their contribition to company revenue has soared, says Mr Whittaker. Knowing what software customers have enables staff to propose addi-

tions and upgrades. efficiency by eliminating a deal with it himself then and

ment cycle, so I put oo a tracts are due for renewal. This had been done mannally just because the stan- tive of its customers and did dard letter did not incorporate prices.

Sometimes renewal letters were overlooked and customers were lost unnecessarily. The new system is trusted to send all renewal letters when necessary and is able to add prices automatically and make them specific to the customer.

Another redundant manual process was sending faxes to people who called for a quotation. The Vantive system is able to respond to snch inquiries antomati-

Now customers, impressed by the letters they receive, renew their support coneven without a call from the sales representative, says Mr

### Easy renewals

telesales and support groups have been integrated, a support representative can see during a conversation with a caller that a contract is com- available, the number of

# Since the systems for the

# The system has improved ing up for renewal and can

### Quest for storage solutions Some companies have well in s niche that is faster sistive (MR) bead technol-

### From page 15:

such as the 4.7 gigabyte disk capacity of DVD drives, but for read-and-write, applications known as DVD Ram, optical disk technology is far behind in terms of perfor-

"I don't think optical data storage will ever be able to compete with hard drive

try and raise hard drive is cheaper than hard drives," capacities. US companies said Mr Katzive at Disk/ Terastor and Quinta, which was acquired by Seagate Technology recently, have developed a hybrid magnetooptical technology that combines optical and magnetic boost disk capacity by as

drives. They might work ingly adopting magneto-re- forward.

taken a different approach to than tape drive storage but Trend.

produce any hard drives itself, instead, it is licensing the technology to other hard drive companies. They will data storage techniques to incorporate it into their production lines and the first Terastor-based hard drives should be ready by the middle of 1998.

capacities further, the disk

ogy, originally developed by IBM, to be able to write and read data at increased disk densities. And IBM. Seagate and other companies are working on Giant-MR beads. which can double areal densities and lead to new products. Since applications continue to be developed that require large hard disk capacities, and as increases in hard drive capacity in turn make new types of applications possible companies such as IBM will con-

tinue to drive the technology

technology. There are some much as ten times of current serious obstacles regarding hard drive capacity. "It's not yet clear if techof optical drives," says Mary nologies such as those that To increase hard drive Bourdon, senior analyst at Terastor has, will be able to the market research firm, match the speed of hard

Terastor does not plan to

III The Financial Times Review of information Technology is published ten times a year February duty and September to December, inclusive, issues appear with copies of the Financial Times on the line. Westgedesday of each month. Postal subscriptions are delivered as soon as possible. the speed and the mechanics effor this date. Dataquest

The competition attracted a diverse range of high quality web sites from organisations large and small. Peter Martin, international editions editor of the Financial Times, a Paul Maidment, FT web site editor — and one of the panel of judges — praised the high standard of entries at an FT awards ceremony on Monday evening. The award is proposed by ULINET UK. Europe's largest internet service provider, in association with the FT. More details are available on: http://www.uuret.cioes.com/events/ft/

I'm worri d that my busin ss will b l ft b hind.

In d to find n w ways to comp t.

(Next week, find out what you're missing.)

FT BUSINESS WEBSITES OF 1997

# Winning websites

From a high quality of entries, the category winners of the competition to find the FT Business Web Site of the Year are announced today

he FT has been looking for organisations which use their web site to achieve commercial advantage in their particular market and can display evidence of business transformation, innovation and measurable financial benefits.

The competition is sponsored by UUNET UK, Europe's largest Internet service provider, in association with the FT.

Winners and finalists in five categories – large organisations, excluding those in the financial sector; financial services; small and medium-sized organisations, employing fewer than 250 employees; the public sector; and not-for-profit organisations – are as follows:

### Large corporates

Winner - Lufthansa German Airlines: Entered by Robert Bethfield, (robert rethfield@dlh); http:// www.lufthansa.com

The rationale behind the Lufthansa site was fairly traditional: to establish an airline technology leadership; establish a channel to sell directly to consumers; reduce distribution costs; and explore new marketing opportunities through the World

The Lufthansa site is currently unique in its field using push technology and Java to offer live ticket anctions with no minimum fare. It has a "fare bargain finder" which also impressed the indust

also impressed the judges!

Its achievements include changing the direct sales and marketing strategy, gaining full executive board backing and delivering its Internet address on most 'classical' advertising campaigns.

The global reservation and ticketing facility means that travellers may book their flights in India via the Internet and pick up tickets at Delhi airport. The BackWeb 'push' informs customers about prices and new products. Lufthansa is the only airline to have reached an agreement with travel agents to sell directly via the Internet. Further benefits from the web site include: sales via the web site include: sales via the web site include the boost to sales. In 1997, this rise may total more than \$Im (£600,000).

Growth rates are increasing by 30 per cent to 40 per cent a month – there are around 6m hits a month. Highly commended: Cisco Systems and

### Financial services

Winner: Saniam Entered by Deon I

Entered by Deon Meyer (deon:meyer @ sonlam.co.za): http://www.sonlam.co.za
The Sanlam site demonstrates how the Web can provide a global parallel for the traditional branch office. This supports the team's own objective to be a virtual office for their South African company.

The judges agreed with Deon Meyer's own assessment: "We try to offer a 'warm' web community where clients and prospective clients can get all their information, do on-line investments, take part in discussions, subscribe to newsletters or just leave us a message."

A main benefit has been an increase in client-satisfaction. Speed of response has been a key factor with the aim of responding to all mail within 60 minutes. Another innovation has been the personalisation of the site. Clients can 'program' the buttons they want when they enter the site.

Management at Sanlam took time to realise the potential of the web site, but has now agreed to develop investment products specifically for the Web – business benefits directly attributable to the web site probably helped that decision. The site has relieved pressure on Sanlam's freephone number and the company is averaging R40,000 in investment income on a rising curve.

Highly commended: iti interactive investor,

## Public sector

Winner: Pragma for the Republic of Kazakstan web site.

Kazakstan web site.

Entered by: Cabriel Al-Salem; (alsalem @ stockinfo.almaty.kz); project manager,
Pragma, http://www.kazecon.kz.

The Republic of Kazakstan site had some challenging objectives: to enhance the perception of the republic 'on the world map' and to win inward investment. In this project, it was not just the innovative use of the Internet which impressed the judges but the practical way the site is being used to stimulate overseas investment in an affordable way.

The site is probably unique because it seeks to develop the business of not one company but an entire country. The main aim has been to contribute to the establishment of a liquid securities market in this young country through creation of an information resource for other interested parties throughout the world.

Web site features supporting this aim include those providing information on the political, legal and business environment, upcoming privatisation sales and former state enterprises.

The web site has changed the mindset of entire constituencies within government, encouraging an open, global approach to business and creating a resource that allows for easy international networking. The site now has more than 100 registered users representing all continents except for South America and Antarctica.

English and Russian versions exist and all databases and news functions are updated on a weekly basis. Extranet technology gives users access to the organisation's intrunet (a private network, based on Internet technology).

The web site was designed - and is maintained - by the Kazakstan Mass Privatisation Project (KMPP), a programme of technical assistance funded by both the



Jeromy Pauman: guest presenter at this week's FT awards ceremony in London

US government and the European Union.

Highly commended: Irish Tourist Board;
the Jubilee Line Extension Project.

### Not-for-profit

Winner: Centre for International Private Enterprise (CIPE) Entered by David Jones (djones@.cipc.org).

assistant editor; http://www.cipe.org
What distinguishes the CIPE site is the
way it has transformed a publishing
strategy, without recourse to the latest
technology, but concentrating instead on
speed of delivery to suit its audience.

CIPE established the Forum on Economic Freedom in September 1995 to expand access to its information by policymakers around the world. Fast access was critical. Other features include 'e-mail-on-demand' for users without full web access, discussion groups, and the Economic Freedom Network providing a 'one-stop shop' for policy-makers worldwide.

The Economic Reform Today (ERT) is no longer seen as primarily a hard copy publication. The Web edition is a stand-alone service that is more extensive but less expensive – vitally important for target groups in countries with poor postal systems, such as China and Haiti.

Eventually, the printed edition of ERT will exist only to reach those clients without Web access, freeing resources for improving the quality and quantity of information and print distribution in regions previously cost-prohibitive and without adequate Internet access.

Internet access.

The results have been impressive: 180,000 hits since September 1995, exceeding annual print circulation of 26,000; 478,839 Kbytes of information transferred in two months. CIPE has cut costs, reduced waste and increased efficiency.

4

1

## Small and medium enterprises

Winner: SeaNet Ltd.
Entered by Philip Baker,
(pbaker@metalbulletin.co.uk); http://
www.seanet.co.uk

The idea behind SeaNet was to offer more than a simple publishing model, using the World Wide Web in a truly interactive way. Launched in 1995 it provides a range of more than 30 services for information, communication and transactional work for the global maritime industry on a subscribe and begin (1995) (1997).

subscriber-only basis (\$950 (£572) a year).

Key benefits: SeaNet offers users the chance to replace very expensive conventional technology to enhance both profitability and competitiveness. Subscribers may conduct business 24 hours a day; the secure e-mail system provides savings on the traditionally high communications costs in the maritime industry. Services include daily news, real-time trading, market reports, secure e-mail, pricing indices, searchable databases, and shiroting finance.

Metal Bulletin, the holding company of SeaNet, has also used Web technology to establish SeaNet as a model to launch similar products in other markets, saving an estimated £600,000 in development costs. SeaNet is now cash-positive with a thriving subscriber-base and subscription renewals running at more than 90 per cent.

Highly commended: JJ Smith; Internet Movie Database; and TrustNet.

## Judges' special commendations

General Election 97 web site. Entered by Alan Vanstone, Online Magic Ltd; http:// www.ge97.co.uk BP CharterRing Extranet site. Entered by

Colin Frost, BP Chemicals; frostcs@bp.com
These two sites are distinctive in their application of Internet technology. The sites did not easily fit into the above categories, but the judges felt that their innovative contribution to the Internet industry is worthy of a special commendation.

□ Launched in January, GE97 provided chat forums, polling booths, content from PA News, the FT, the Economist and much more. It was a non-partisan site for anyone interested – on election night, it received 48m hits from all over the world. in a four-week period, the site received more than 100,000 hits a week.

☐ The BP Chemicals Extranet — a secure network of web sites connected via Internet technology — has greatly improved communications between the company's ship chartering team and external shipping brokers, eliminating a manual intensive, faxed-based service. The new extranet provides easily accessible information in real-time to users around the world.

حكنا من الاعل





## Measuring the effectiveness of IT systems is never easy

measure whether their IT systems are Managing successful, reports Philip Manchester information

bols are long gone. Today. Here and on the following companies need to know four pages, FT writers exactly bow much return examine ways to measure they can expect on their IT investments. They need services - and, in particular, used to see bow thair systems are performing. But how to control the cost of maintaining them

main factor

forchange as the crucial issues

sive floor space and

the payroll has shrunk hut

bow do companies assess if

they are getting good value

for money when they out-

source information technol-

in the early days of out-

sourcing, or facilities man-

agement, the aim was to cut

costs. It was a straightfor-

ward matter to compare the

cost of running IT in-house

against the outsourcing bills.

to check that the promised

savings were being deliv-

Today, IT is at the heart of

competitiveness and compa-

nies cite a range of motives

for outsourcing, making it

more difficult to assess value

for money. Although reduc-

ing costs may feature, few companies now put it at the top of their list of reasons for

outsourcing. They are more

likely to outsource to enable

change; to gain access to a

greater and more flexible IT

resource; because IT is seen

as a non-core activity that is

taking up management time;

to improve the service; or to

very clear about their objec-

tives when they outsource IT

it's bard for them to assess if

which advises companies on

outsourcing contracts - see

also article the main article,

above, on benchmarking IT

Outsourcing has become

so fashionable that people

are entering contracts with-

out questioning what they

want to get out of it. "Out-

sourcing replaces a compa-

ny's own people and equip-

ment with a contract.

Contracts are fine in a static

environment, but IT is far

from from static. How can

anyone sign an outsourcing

contract for 10 years when

no one has any idea what IT

will look like, even five

For example, no company

could have foreseen five

years ago that the Internet

would hecome central to

And change is not limited

to IT. The commercial envi-

ronment will also be

changed inexorably. The

problem is that flexible con-

tracts, which include clauses

relating to updating technol-

ogy or allowing for commer-

cial upheavals, such as

mergers, acquisitions and

"What companies have to

new business developments.

remember is that IT outsour-

cing is a contract business.

In this respect, it is very sim-

ilar to the construction

industry. Suppliers bid low

hy boxing in what they will

deliver and take profits from

changed orders," says Mr

Hugh Morris, head of out-

sourcing at Andersen Con-

sulting, agrees that the issue

of value for money bas

become more complicated.

To get an idea of value

there bas to be some sense of

how IT fits into an organisa-

tion's strategy. To hand over

to the lowest cost supplier

could be the right answer.

But if IT is strategic, you have to look more at the

capability of the aupplier

are more expensive.

years hence?"

business strategy.

"Companies should he

solve a problem.

Consider work to solve the

OUTSOURCING IT SYSTEMS . By Nuala Moran

Price is not the

he days when compa-nies bought IT lem. "How do you measure systems as status sym- the return on investment on that? The answer could be that you manage to stay in business beyond 1999," notes Philip Crawford, senior benchmarks that can be Oracle, the database soft-

it is not easy to measure never been easy to prove value for money for IT systems - especially when it

Companies often have no way to

ware company.
"Traditionally, it has

easier to measure now we are moving technology from the backroom to the front office. But you need a husiness plan that drives the use of the IT systsms and it round time for orders." must have numbers against it," says Mr Crawford. Companies often go ahead

with IT systems without a

no way to measure whether it is successful or not, he adds. "We were working with a large multinational recently that told us it had tha hudget - approved by the chairman - to install a system. But when we asked how they intended to measure the effectiveness of the system, they couldn't tell suppliers to give them what they want if they have not thought it through prop-

Peter McPartlin, director of software services com-pany Logica's business consultancy division, echoes Mr Crawford's observations: "IT eystems don't lend themselves to traditional cost/ benefit analysis. When we go into a new development, we first set out to find what the hustness goal is. And after the development, we recom-mend a review - either by one of our business consultants or an internal audit."

The audit should not be carried ont by IT people because it is a business issue, he says. "You have to check to see if the husiness goals are met. The metrics you use are factors such as customeremployee morale - all difficult things to measure." Mr McPartlin says that

Logica uses a 'scorecard' approach that records a range of measurements across the business. "We

this to key business execu- Express, Lloyds and Midland ual procedures. It is getting tives. The financial chief, for . Bank to AT&T, ICI and Britexample, has responsibility ish Airways. for measures such as the turnover of employees, cus-tomer-satisfaction and turn-

#### Comparisons

This approach has been formalised by specialists in benchmarking. The Norwebuilt comparative models to measure effectiveness for a range of different areas of IT, such as data centre networks, application development and ortsourcing.

With 600 clients in 25 countries, Compass has built 4,000 comparative etudies. The company carried out 470 studies last year for clients

Robert Enevoldsen of Compass: 'Companies can set targets and

involved automation of man- give the responsibility for ranging from American

"Effectiveness of IT means

different things to different people - and it depends on whether you are talking to sharebolders, directors or employees. IT is one the many operational tools to underpin a business - but to judge effectiveness, you must look outside IT." says Robert Enevoldsen, director gian company, Compass Robert Enevoldsen, director Analysis, for example, has of Compass Analysis UK see also report on outsourcing

> "We go to a company and take lots of measurements based on actual results," be says. "These figures are fed into our models and generate qualitative information. We can then judge issues relating to best practice and compare them with other

He points to examples such as the number of times users have to re-start their desktop PCs as a result of aoftware problem or the number of calls a anpport centre processes problems successfully; "If we find that users are re-hooting their PCs twice a week and the best practice shows that this should happen only once a month then we have identified a problem.

Similarly, if a call centre is abandoning two calls a day when best practice records no abandoned calls, we have found another problem we can do something

Other possible causes of had performance identified hy Compass include areas such as a lack of standardisation in IT infrastructure and excessive support costs. Comparative analyses that Compass uses specify actual examples - rather than bald statistics. "We name compa-

the floor of the Pacific Stock Exchange in Los Angeles. The tional financial sector is more de effective and reliable IT systems, but in many cases these networks do not land themselves to traditional cost/benefit

nies so that our clients can groups of companies and check on the achievements of those who perform well. Our clients undertake to supply data which is pooled and linked to a reference

"It really means that comnanies can learn from others' experiences. Companies can set targets and manage and monitor their projects based on the comparative

According to Mr Enevoldsen, Compass's approach is catching on fast - although "Management there take are getting value for money.

pool their results so that they can share their experiences, It is a generic discipline and you can use it to do cross-industry compari-

This form of benchmarking where companies can compare their performance against their compeutors or, indeed, with companies in other sectors - promises to make the business of assessing the effectiveness of IT systems more scientific. It should also make it easier he notes that it is more for those holding the purse advanced in Scandinavia. string to see if they really

hortage

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as the ability to get things done in a particular time-As organisations look for value, they are realising the format of bids in their

he mainframe is no they should measure output invitation to tender, quotes longer hogging expennot input. This is leading to are often hard to compare. e move away from service level agreements to the concept of the 'balanced score

deals, client companies see flexibility and the enablement

While value for money is important in IT outsourcing

"A service level agreement says things like, 'Make the mainframe available 7am to 10 pm, six days a week, with no more than 0.01 per cent downtime.' On a score card, the company would ask the question: During the last quarter, was the service we received sufficiently responsive to our business needs? These two are whole worlds apart," says Mr Morris.

Compass sees its role in advising on outsourcing as making sure clients under-

> 'Never outsource IT to get rid of a headache. How can a headache be put into a contract?'

stand what they want to get - but a lot are unclear and out of the contract. This makes it possible to put expectations." says Robert as part of the contract so Enevoldsen, a consultant at they can assess what the Compass Analysis UK, supplier is delivering.

Mr Enevoldsen advises that companies begin hy comparing, or benchmarking, their systems against sourcing, it is important to know the market cost of in-house services. Until they take the temperature of the market, they won't know if they're getting good value for the money they are now spending on IT."

He cautions firmly against outsourcing IT to get rid of a problem. "My advice is: don't outsource to get rid of a headache. How can a headache be put into a contract? We would always advise chients to get their systems into or at least to be able to give euppliers e detailed run down of what needs to be done. If these measurements are done up-front, the company is in e much stronger

position when it comes to negotiating the contract." Bob Guppy, head of outsourcing at Integris says its approach is to encourage clients to value IT before letting contracts and to re-evaluate it throughout the contract. "We have regular meetings, on a quarterly hasis at least, to review value for money and flexibility of service. We try to pick np on changes that are

needed without charging more money." Compass suggests that clients put a benchmarking clause into their contracts (see report, above, on IT effectiveness), to allow them to assess how the service they receive compares to that of peer companies and to com-

panies in other sectors. it is not possible, bowever. to compare contracts. "There are a lot of issues that make this very hard. For example, various levels of service, different length of contract, exclusivity, termination and renewal - which means comparison is rarely like with

and consider elements such The difficulty of making comparisons also occurs in the tendering situation. "Even if companies specify

This means that, whatever else is outsourced, good contract management skills must remain in-house."

He does not recommend "open book agreements", in which suppliers tell clients what their profit margin is, as a route to ensuring value all kinds of difficulties. At the end of the day, outsourcing is a business arrangement, so there will be a profit. The problem with open book' is that clients are tempted into the micromanagement of the snp-

As part of a move into more sophisticated arrangements, some outsourcing suppliers, such as EDS and Andersen Consulting, offer sbared-risk contracts in which their payments are linked to achieving stated business objectives. Mr Enevoldsen agrees that, in some cases, this may be a good route to ensuring that IT ontsourcing is good, value for staff rapid access money, but he cautions that to research shared risk can mean the supplier gets further and further into the business, and may be hard to extricate. "If the outsourcing is meeting some measurements in place supplier must be prepared to

> Although he believes that companies should look for good value for money, Mr Enevoldsen emphasises that this cannot be assessed simpeer companies. "Before out- ply on cost. "Don't choose on price. Clients are going to be working closely with the eupplier company over a Blne Curve - designed for number of years, so there has got to be a cultural fit."

> > pages 20-21.

FINANCIAL RESEARCH NETWORK . Case study by Joia Shillingford

### Swift facts for stockbrokers

NatWest Markets' ing putting all the research "However, some people

TatWest Markets, voted number one for UK broking research you do get involved in risk/ in this year's Reuters' surreward then the outsourcing vey, is putting all its research on to an in-house share the good times and the Intranet.

On the intranet (or private 'Internet') analysts and sales people at the company will be able to find research produced in the company's offices around the world. NatWest Markets is using off-the-sbelf software . Research.Net from UK-based brokers' research.

Paul Rinaldi, assistant director for research at Nat-Critical issues in IT systems West Markets, says it took management: see Gartner six to eight weeks to get the Group's research findings. pilot up and running, includ- it's rolled out.

people and analysts in Europe. It will then be introduced to staff in other parts the system came from users, according to Mr Rinaldi, "We were asked what we doing

about distributing research

monitor projects, based on

online. "We're delivering it internally first," be says. "The longer-term aim is to deliver the content to our Internet Weh site. We've shown the system to various customers and received good feedback." reduction

As well as serving clients better, Mr Rinaldi says "We have a phased plan of paper internally. Research.Net means that we will use less, though we won't stop dropping paper on people's desks as soon as

into a Lotus Notes database. have already said they won't internet technology, so Nat-The pilot - begun in need the printed report on analysts and sales November last year - was their desks now."

West Markets is training ket's research system runs staff on how to use it. Its under Windows NT, a Micro-

by research assistants, but intraday notes can be distributed over the system of the world. The drive for immediately by analysts themselves.

#### Benefits

One of the advantages of the system is that sales people can gain fast access to research even while they are on the phone to a client. They can also see at a glance, the buy, sell or hold recommendations on a stock.

As well as reports, Nat-West has included comparative statistics so that a dealer could compare the performance of an equity against the average for its

successful and the system is Most research documents research system has been soft operating system, and being rolled out to 220 sales are loaded on to the intranet designed so that research makes use of Lotus Domino can be tracked down easily either using an Internet browser or Lotus Notes.

The same data can be looked at in different ways. For example, research on a particular equity can be lcoked at hy date, company, sector, country or region.

The opening menu also includes headings euch as daily comments (morning meeting notes); publications; equity ratios; economic forecasts. And NatWest bave customised parts of the system like the daily-comments templetes.

A few details are being ironed out, such as how to index research that does not relate to a specific equity, country or sector. Or which complex financial modelling use when research is input keeping the company ahead.

(which can replicate databases across different servers) and Lotus Notes groupware and conferencing

database. The cost of the system is said to be "a few hundred thousand," but the company won't need to add any extra staff to run it. And application support and development is being outsourced to

software. It also uses the

Java internet language and

integrates with the Sybase

Blue Curve. Mr Rinaldi helieves the system will pey for itself in paper reduction, especially when it starts to be distributed externally. More importantly, it will improve the Although stockbrokers use chronological date format to sales people and analysts -

Information System Management Awards - Submissions invited by the British Computer Society

### Prestigious awards open for nominations

the Financial Times.

The IS Management Awards are organised by professional body the British Computer Society, in association with the Financial Times and with sponsorship from Blue Circle Industries, Deloitte & Touche, KPMG Impact, Unisys, and Woolwich.

The awards recognise achievement, improvement and innova-

n annual UK award for at the impact on husiness perfor- Powis, IT director at P&O Ferries, project disasters.

The award typically goes to a team rather than an individual. Past winners report benefits in terms of heightened status for the IT department and for their entire "The profile of IT in the com-

pany has been enhanced, suppliers have proved eager to associate themselves with our success - and tion in IS management in the UK. the award has helped in recruit-

A annual UK award for information systems man-agement has opened for users, and the management of users, and the management of process re-engineering pro
"Sales consultants used the systems of the constants are constants are of the constants are of the constants."

Team's success

Ian Tighe, IT director et London Ambulance Service, agrees: "Our control room was buzzing for two weeks after the award ceremony. and it was great to see people holding their heads high after so many depressing years." Mr Tighe led the new team that successfully developed a command and control The judges look, in particular, ing quality ataff," says Nigel system, thus ending 10 years of

Eagle Star Life, the 1996 win-

"Sales consultants used the award as a further sign of our improving corporate position." says business systems development manager Mark Sberidan. The other past winners are Ford, Tesco and Cheshire County

Council. The entry procedure starts with e simple nomination form, due in then asked to prepare a more

detailed submission by January

Selected entries are investigated by e panel, and three finelists make a presentation to a judging panel of senior executives.

prestige dinner in May: speakers have included IBM chief executive Lon Gerstner and Sir Michael Heron, chairman of the UK Post Office.

Nomination forms are available from Morio Teresa Muir on (01793) 417417; fax (01793) 417432; e-mail mtmuir@bcs.org.uk.

John Kavanagh



of IT equipment

uel Valute (%)

Residual value vs technological illo

Time (month

First round of discounting

## The life-cycle changes gear

Over the next five years, 70 per cent of IT departments in large and medium-sized enterprises will systematically seek to reduce technology complexity as a key means to improving IT effectiveness

the bewildering pace of change in communication technologies, the wide range of products and services to review and acquire, and the need to reduce the total cost of ownership for their information technology

Analysts at the Gartner Group report that organisations have begun managing equipment life-cycles as part of an overall IT asset management strategy designed to reduca costs by implementing standards and practices. These businesses recognise the value that equipment life-cycle management delivers as an opera-tional strategy to tame the increasingly beterogeneous computing environment and to facilitate new technology implementation.

The industry is exploring the business, technical and financial practices needed to optimise equipment acquisition, manage portfolios and retire obsolete equipment.

☐ What critical issues are driving organisations to revamp their equipment life cycle managemant prac-

When computers were first introduced, they were generally used to provide computation support and improve productivity for organisation-wide tasks, such as payroll or manufacturing cost accounting - this was the computing-assisted enter-

In the second phase, applications were developed specifically for departments but the organisation chart typically defined the scope of computing technology and its application - this was the enterprise-defined comput-

According to Gartner, "we are now entering a third phase where technology has transcended the organisation to become distributed and shared throughout". Many of many organisations cannot the same tasks are being performed but they are being done in innovative ways this is the computing-defined

enterprise. Competitive pressures are pushing organisations toward the "computing-defined" enterprise where technology is enabling whole new classes of business activity to emerge. The test is whether the business could be conceived of with-

out computing technology. Sucb competitive advantages do not come without higher costs and risks. Because of the greater dependence on technology. Gartner argues that computing-defined enterprises can-

not operate any other way. However, as the organisational use of computing has evolved, the underlying system platforms, created at each phase of the evolution, remain largely intact. Thus, payroll and general ledger systems often still run as mainframe-based data centre applications. First-generation client/server implementations, underpinned by midrange computing platforms. created online access but were often batch processed each evening. PCs, now the main access for the IT systems, are as mission-critical as the systems they

mentations, often built layer struggla with on layer, are creating increasingly complex and fragile computing environments that resist re-engineering efforts and reduce an organisation's ability to deploy new technology,

says Gartner consultants. They argue that a complete system re-organisation usually occurs either because the company decides to deploy a new, enterprise-wide vartical application (auch as SAP's R3 or PeopleSoft) in order to create compstitive advan-

#### **©** GartnerGroup

#### European symposium

This week in Cannes, in the south of France, delegates to Gartner Group's annual European Symposium are hearing Gartner consultants give their views on some of the hot issues in IT

Entitled 'The Future of IT' the four-day symposium, which ends tomorrow, loo at the priorities for IT directors and chief article, Paul Taylor presents edited highlights from the

The ITxpo event, with displays by leading IT suppliers, runs alongaide the conference. Details can be found on www.gartner.com

tage or because, in respons to a competitive threat, a company chooses to re-architect systems (such as in the courier delivery market).

Over the next five years, Gartner believes that the focus of client/server system investments will be to deliver an affordable and reliable systems platform capable of delivering mission-critical computing to

the enterprise. Client/server systems have operate without them. Now, the challenge to those involved in distributed systems acquisition and operation becomes running degree of reliability and cost effectiveness.

ifferent organisations approach the problem from different angles hut most result in initiatives focused in one of three areas: reducing total cost of ownership, restructuring IT IT asset management initia-

"Regardless of the starting point," says Gartner, "the core objectives and the steps are similar." Organisations concluda that they must begin operating their distributed environments with the same discipline and rigour that have long been a hallmark of mainframe data cen-

tre operations. All along the way, tight adherence to technical standards, disciplined procurement practices and comprehensive asset management and tracking are being identifled as requirements and are being implemented. By 1999, Gartner believes

that three-quarters of medium and large-sizad organisations will have initi-

"New technology imple- ated asset tracking pro- grew out of initiatives to classes and 40 per cent of those will move to integrate asset management practices with other IT management

> ☐ How will organisations apply the lessons of total cost of ownership to reduce equipment life cycle costs? Through 1996, less than 20

per cent of medium-to-large organisations had established IT equipment life cycle planning (ELP) models. However, by 2002. 35 per cent of the remainder will embrace ELP as a tool for managing IT acquisition, optimising their IT portfolios and justifying IT expenditures, predicts Gartner.

As IT becomes a pervasive tool in many organisations, and expenditure grows, more scrutiny than ever is being focused on IT spend. As a result, the financial disciplines long applied to other types of capital expenditure will increasingly be required of IT financial management

"Wa see a developing crisis in many organisations' IT financial management practices because IS organisations cannot concisaly explain whera money is being spent, what has been achieved by expenditure and how much more will he required to achieve the original goal." warns Gartner.

This lack of financial reporting discipline has been an underlying motivation for IT outsourcing in many organisations. Establishing IT asset accountability is the first step, capturing expenditure is the second and equipment life cycle planning is the third. Through 2002, virtually all IT equipment will retain less than 10 per cent of its initial purchase price

after 36 months. Generally, used equipment that is less than two years old can be re-deployed by someone as a 'computer'. Equipment that is three to hecome mission-critical . four years old, however, generally has value only as spare parts.

"Because the vaine of the equipment is so limited. businesses should assume that initiatives to take conthe environment with a high trol of used and surplus equipment may actually cost money. In other words, the proceeds from selling the equipment may not be adequate to cover the costs of de-installing, collecting and disposing of it in an acceptable manner "

Over the next five years Gartner predicts that 70 per cent of IT departments in procurement or creating an large and mid-size enterprises will systematically seek to reduce technology complexity as a key means to improving IT effective-

> One of the cornerstones of industrial engineering is product simplification. In the IT world anterorises remain in a headlong dash to deliver functionality. First, it was PCs on every desk; then the network; then newer, easier-to-use graphical user interfaces; and then Internet connectivity.

> The five-year forecast for new technologies looks just as formidable but Gartner says that many organisations are coming to the conclusion that future success relies on a rational founda-

"Wa recognise a trend that

enhance system man ity, improve reliability and reduce costs: a new, and growing, realisation that environments must be simplified and streamlined," says the consultancy.

Enterprise asset management has a significant impact on and-user operations. But the current end-user perspective is that it potentially limits options, reduces flexibility and becomes another "bureancratic" slowdown. Through 2001, the sustained success of asset management initiatives will be defined by the ementation team's ability to deliver value from the perspective of the end-user, says the Gartner Group.

n particular, businessto-business web commerce will have an impact on more than 90 per cent of enterprise procurement organisations by 1999, changing the speed, process and cost of the pro-

"Under pressure to deliver a world-class procurement environment, it is tempting for enterprises to npgrade purchasing strategies and software, especially now that the market is filled with claims about solutions being 'internet-enablad' responsive to emerging 'electronic commerce

Buying and selling processes are undergoing a major upheaval as companies begin to use electronic commerce. But, although electronic commerce usage will rise through 1998, return on investment will remain alusive through 1999. We continue to recommend that organisations treat entry into electronic commerce as a long-term investment."

By 2000, those companies which persevere with their electronic commerce strategies will become highly competitive and electronic commerce 'channel masters' will emerge from their ranks. Electronic commerce will then begin to move from an emerging tool to a competitive mandate, say the consultants.

Gartner analysts argue that organisations should benchmark 'pre' and 'postalectronic' commerce procurement strategies. Successful electronic commerce strategies should enable them to send hid requests to a wider range of potential suppliers, gain more access to information about products or services, gain anicker knowledge of suppliers' ability to fulfill orders and get order and shipment status information faster.

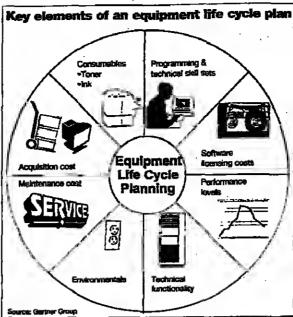
□ What is the cost of obsolete equipment and how can it be retired?

According to Dataquest, a Gartner Group company, US businesses will 'retire' 14 million PCs this year - a process presenting unique chales and costs that organisations seldom consider. A significant volume of

retired assets still goes unnoticed, accumulating in storage cupboards and ware-

"Although temporary elimination is often the most expeditious alternative, lt is also the least effective, claims Gartner. Ultimately, organisations

will need to develop strate



gies for disposing of these assets. Many use a variety of programmes · for example. cascading equipment down through an organisation, of surplus IT equipment. amployea purchase promost organisations will disgrammes, donations to charity end periodic sales - often cover that proceeds do not an ad hoc manner. But othars, overwhelmed with the task st hand, simply

throw equipment away. "Lost in the discussion of 'how' we dispose of this obsolete equipment is the anestlon of 'who' actually does it. Many organisations have learned that if the sale of other scrap or salvage material is left unmanaged, it often creates unintended consequences. The challenge for IS organisations is to begin thinking of equipment disposal and sale as a necesaary and ongoing part of

day-to-day operations Effective strategies to harvest value from surplus or obsolete machines will consider and quantify the intensive labour required to prepare and manage disposal process and that most will conclude that methods actually require more labour and support than the value of proceeds.

The consultants suggest the following guidelines Companies should only attempt one planned equipment cascade during the hardware's lifetime. When labour costs are factored into employee sales

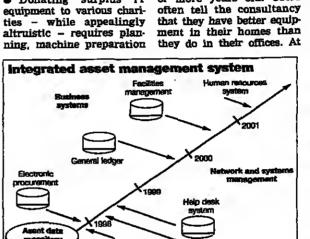
 Sales to employees should be viewed as an adjunct of employee training and benefit programs, not as a way to recover value from obsolete IT equipment

 Donating surplus 1T equipment to various charities - while appealingly altruistic - requires plan-

and documentation. Gartner also draws attention to the risks associated with IT equipment disposal, such as giving sway access to the enterprise network, in the form of embedded log-on codes, and inadvertently

Firme (months

distributing proprietary data left on equipment that was value in a used computer. Virtually no market exists for machines that are three or more years old. Users



the low end of the market new PCs are being offered at farewel.

the \$1,000 price point. Beyond the purely economic arguments, Gartner notes that there are several non-government related initiatives being explored in the US and Europe that will increase recycling, most notably the 'Design for Envi-There is little economic ronment' programme and recommendations under ISO 14000. By 2002, Gartner predicts that 70 per cent of medium and large-sized organisations will formalise their surplus IT equipment disposal routines.

"Through the five-year planning period, most IT organisations will conclude that the risks involved with unmanaged equipment disposal are unacceptable and they will rationalise their disposal routines," the consultants believe.

Many organisations will also decide that the effort required to do this is most effectively done by an external services provider.

Whether it means expanding their relationship with their reseller or lessor, or using one of the newly evolving IT used-equipment services providers, this will be a likely implementation for many organisations.

VALUE FOR MONEY . By George Black.

## Users rebel against rising PC costs

Large companies are turning their attention to how they can cut the cost of supporting their vast numbers of personal computers

he support element of the cost of owning a personal computer has risen to more than three-quarters of the total price and has now become a target for company accountants.

It could well rise further as the new corporate intranets are likely to bring far more frequent changes to desktop systems.

Software distribution. configuration management and running a helpdesk are three of the aspects of support that contribute most heavily to the cost.

The greater complexity of networks, since they shifted to a client/server structure. has increased the number of problems affecting users and tha cost of solving

A couple of years ago Gertner Group consultants created amazement by stating that it cost a company \$40,000 to own a PC for five

How accurate the figure was is not the point. It was a revelation to most people that the hidden costs of software, service and support for the desktop were many times more than the purchase price of the hardware. Until then most managers

had thought PCs were simple machines which did not need much managing. Because the cost of buying PCs even in large volumes was so much less than that of buying a mainframe, it had been the conventional wisdom that downsizing to PCs would save money.

In questioning this, Gartner began a prolonged and heated debate in the industry about the cost of ownership of information technology, particularly the growing proportion on the desktop, and how it could be reduced.

This led to the question whether the PC was needed at all and whether it could be replaced by a slimmeddown "network computer", managed from a central system and receiving its software across the network by using new languages such as Java.

Intel and Microsoft, two companies which dominate the corporate desktop in hardware and software as a replacement for mainrespectively, hastened to frame terminals, but it will



reject this hypothesis. The network computer would not work out much cheaper than a PC after taking into account the extra cost of bandwidth, it was argued. In response to the challenge Intel launched a "managed PC" initiative aimed at cutting the cost of operating desktop equip-

Rod O'Shea, Intel's architecture manager for northern Europe, says that soon network managers will be able to check all tha details of their PCs and to deliver software upgrades remotely.

PCs will ba serviced remotely overnight and notebook PCs will be serviced by a helpdesk when plugged in to the network in a remote office or hotel bed-Microsoft introduced its own mitiative called Zero

Administration for Windows, aimed at retaining the loyalty of corporate. users by making its next generation of operating systems more cost-effective. These innovations could cut the cost of ownership more than the switch to NCs might do. "There is no need for such a radical

change to the infrastruc-

ture," argues Mr O'Shea.

"The NC may find a niche

NCs or have decided it is too risky to contemplate such a switch until more bandwidth is available and servers become more power-They cannot at present guarantee the uninterrupted access to the server which would be essential for an

not become a mainstream

The issue is still unre-

solved because most compa-

nies have not yet evaluated

device replacing the PC."

NC-based network. Even when bandwidth become freely available and more powerful clusters of servers based on Microsoft's Windows NT operating system are developed, it is still uncertain whether the cost of ownership argument will

eanwhile, concerns about costs are pressing. Most large companies have begun projects to study the cost of ownership of their systems. Many have been vigorously tackling the hardware and software elements.

driva users to adopt the NC.

Bill Kirwin, a Gartner research analyst, says that companies which have adopted the best practices have cut the cost of owner. ship by 25 per cent or more mainly on lahour costs involved in helpdesks and software expertise.

Many large companies have conducted systems andits and thereby begun get a grlp on what they own. In the process, some have discovered that they greatly under-estimated the number of PCs in the business, since so many were acquired by channels other

than central purchasing. Upgrading PCs is often a good investment, says Mr Kirwin "Keeping them for more than four years may look good to accountants, bnt it tends to increase costs because you have to support multiple generations of software," he notes.

Many more organisations now use the negotiating power of a hulk purchaser from a single source to avoid paying higher prices than they need. It has become common to standardise on a single hardware manufacturer or configura tion or hoth. Also users have been helped by fierce competition between suppliers, which has brought unit costs down.

gated their use of software, anforced standards and rationalised purchasing. They have tightened up on software licences ao that they do not cover more users than they need - and all users are covered so they do not risk legal action against them by suppliers. Now they are looking into

Many have also investi-

the cost of support. Many have no idea how frequently their machines need support or service or what for. Now they are starting to study this, some users report that installing configuration management and software licensing tools has saved them buge amounts.

It seems unlikely that concerns about the cost of ownership of PCs will stem the tide of downsizing, which is reducing the number of mainframe users to those who have no alternative regardless of cost.

Mark Hornhy, corporate development manager for Seagate Software, which sells system management software, argues that the cost of ownership of PCs is still lower than that of n mainframe and will fall further while that of the mainframe has little scope for further reduction.

The National Half & Olympia 2, London, UK Online Information, now in its 21st year, is the largest information inclustry event in the world attracting over 18.000 attendees. This show, which encompasses a three-day Conference and parallel Exhibition, is the annual meeting place for anyone wanting to keep abreast of the latest developments in content and the impact of technology on the To get your FREE tickets to attend the Online Information 97 Exhibition, cell the ticket bottine NOW on the number below! THE ONLINE INFORMATION OF TICKET HOTLINE F +44 (0)1923 25**2**526 Moodalde, Hinksey Hill, Oxford OX1 5BE, UK F+44 (0)1865 388000 F+44 (0)1865

The Financial Times plans to publish an FT-IT Review of Indian **Software** 

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## Farewell to the centralised IT department

Increasing demands for new business solutions will consign the traditional, centralised IT department to history

though it has never analysts at the Gartner

the business agenda) on the one side, and the decentralising effects of today's informstion technology capabilities on the other, the traditional, centralised coran enterprise-wide mandate ing into history, say the Gartner consultants.

Rises in IT staff remuneration are playing no small part in bringing a large investment in IT staff to an end as well, says Gartner. "Completion of the year 2000 task will be, for many, the capstone to this phase of IT's transactional packages deepening embedding in the

But the consultancy cautions that this does not mean wholesale outsourcing mean wholesale outsourcing same enabling technologies of IT services (although most make it possible for end enterprises will enter into one or more outsourcing contracts during the next



#### European symposium report

rtage

five years), nor does it mean anarchy will rule.

The revolution sparked, first, by the PC, then, by local area networks and, finally, by client/server computing and the internet is about to be reined-in and condemned to history as well Five years from now, the typical large and complex mid-size enterprise will bave more consolidated IT. capabilities than It does today," the consultancy pre-

☐ How should the IT department transform its develop-ment practices to meet the challenge of accelerated demand for IT solutions?

be centralised IT been the need to service department is on its business requirements. Yet, way out - even in many organisations, that need is coming to an end. been busier, according to Driven by the capabilities of the application suites now Group. available – for example, Baan, Oracle, PeopleSoft, aged application market SAP and J.D. Edwards – (and a managerial desire to more than 90 per cent of remove service issues from transactional needs are now satisfied "out of the box".

Furthermore, the business in general is maturing, recognising that there is often limited to negative value in traditional centralised cor-porate IT department with be a "perfect" fit to the taught that the business, too, can adapt.

"While competitive advan-

tage may still be sought in producing formal workflows a customer-centered approach to husiness events. as opposed to the processcentered approach of the and in building external linkages using electronic commerce solutions, for example extranets, these users of IT to construct their own decision support. collaborative and ad hoc workflow capabilities.

While these solutions may lack efficiency, they offer effective and timely delivery for limited needs.

Leading-edge businesses and certain industries - for example, financial services -will remain dependent on portfolios of applications engagement only. developed in-house but many other industry-specific packages will enter the market as licensed products during the next five years. Looking ahead, Gartner

predicts that, "by 2003, rela-tionship management will evolve into 'endeavour management' in 50 per cent of enterprises, 30 per cent of endeavour managers will be located in a consolidated business transformation unit and 70 per cent will report directly to relevant business unit managers".

Three years ago, most IT departments did not bave relationship managers, but today a majority do. And the role of the relationship manissues towards a mixture of endeavour management and The raison d'etre of the IT and an expected focus on



row. This final transition, says Gartner, will transfer many relationship managers into the business itself, where they will become internal consultants to the business management team.

Meanwhile, by the year 2003, Gartner analysts predicts that three-quarters of development resources for a typical project will not be employees of the enterprise but will be sourced for the

"The escalation in compensation for legacy skills and some package and lead-ing edge skills, and the destabilised labour markets in most of North America. parts of Europe and some areas of the Pacific Rim, bigblight the economic underpinnings of the new sourcing strategy for development - spend freely to retain highly leverageable skills, and source the rest. "As demand for consulting

continues to outrun supply, project management skills remain a key internal capability for most enterprises. Certain other skills ager continues to evolve to differentiate the enter- of IT." from a focus on service prise in the marketplace, or

to assist end users in getting value from collaboration or service management, today, information-sharing services - also remain in demand

to exploit opportunities. "For all other develop-

ment-oriented skills, sourcing strategies that focus on 'just-in-time' delivery of staff will emerge. This suggests that current trends toward

where knowledge of the ment, applications will be sactional systems could be enterprise and its capability seen as 'time-limited' (as taken down and made packages and productivity tools already are) and thus as items to acquire, hold and replace rather than mainpetitor, warns Gariner.

Lowered enhancements, in turn, make outside maintedecentralised development nance more practical - a vir-

The evolving role of computing

will migrate into decentralised user support capabilities; maintenance, in turn. will be deemed 'ontsourcable' as legacy maintenance because of their potential to becomes an increasing por-unlock 'free' productivity, or tion of the enterprise's cost

> predict that by 2003 internal development capabilities will be focused on one or, at most, two application areas designed to leverage the organisation's competitive strategy. Other areas will be handled by packages, external services or end-user tools, even if these are suboptimal on a project cost

Most applications in 80 per cent of enterprises' portfolies will be maintained by external resources and 80 per cent of enterprises will bave permanent portfolio transition strategies in effect by 2003, Gartner believes. Maintenance remains the single greatest factor holding the development organisation together, but maintenance, as we have known it. is coming to an end," the

consultancy claims. A sharp rise in interest in offshore maintenance and deals are lost) when they are infrastructure plus maintenance' outsourcing deals are the first indications that and 'knowledge of the applitheir history' for lower costs of support.

shift in the expected future now facing this demand -of an IT investment. Rather faced first in the financial than the traditional 'sunk cost' approach, which led to els of operations and supenhancement after enhance- port. Whereas internal tran-

tuous circle. Without maintenance as the glue, internal development groups will dis-

Researchers at Gartner sation transform its operational and support areas to meet the service needs of an increasingly mobile and global user community? Gartner addresses this

issue by posing a series of further questions: When can an enterprise's Web site be shut down? In a global economy, it can't:

it is always prime time, somewhere (or else the Web site serves no business purpose). When can an enterprise's extranet links be shut down?

partnerships and virtual corporations all must agree, or · When can an enterprise's internal communication and decision systems be shut

down? When employees who use these systems travel; productivity is lost (perhaps even

The demand for continuous operation, worldwide, enterprises are willing to continues to spread from one consider trading long-stand- industry to another as the ing working relationships joint impact of globalisation and broader enterprise intercation, the business and ests becomes the normal mode of operation. Manufacturers, distribu-

This move will herald a tors and other sectors are sector - for heightened lev-

'unavailable' periodically, external relationships that are unavailable signal the message: 'deal with a com-

While, today, operations in represent the most efficient and service-conscious part of that group - and are most often consolidated to improve service - few enter prises can afford the complexity of service required to compete in the 21st century. the consultancy suggests.

"By 2003, more than 70 per cent of enterprises will acquire at least 25 per cent of their operational services for networks and application processing through external service providers rather than operate their own infrastruc-

Similarly, by 2003, the group believes that a quarter of all enterprises will acquire external services based on business processes and/or application suites portfolio and having the an internal IT department? A significant number of

businesses actually manage to meet or exceed typical outsourcer efficiency levels. Outsourcing in the future, however, will be more driven by desires to 'clear the desk' of service issues, provide continuous service, or to outsource business processes than by an efficiency-based

Unless its trading partners agree, they cannot. Likewise, and simplify inter-enterprise

linkages," say analysts. Business process outsourcing, too, takes work away from the IT operation in favour of the process outsourcer. As a first stage. inter-business-unit and interpublic-sector-organisation 'mergers of interest' will continue to predominate, as these units seek to gain efficiencies through internal outsourcing between agencies or business units. Later. convergence between trading partners will couple with external offerings to general-ise the opportunities available in the market.

By 2003, 60 per cent of enterprises will require

management strategies.

publishers see the Internet

as a fresh source of income?

society: new technologies,

information: real-time, in

the areas of finance,

science, technology and

☐ Ensuring the quality of

☐ Developing new

The information

revenue models: do

internal support organisations to add value by work- internal depreciation on the ing directly with end users to increase their productivlty; product and usage support will migrate to training vehicles embedded in, or conjoined to, applications or product speciality consolidated external belp desks. Service desks/help desks.

IT professionals often fail to actually belp end-users do their work, claims Gartner. Often, the assistance from these desks is either productrelated or kept at a distance - "I'll send you the report once I've created it."

maintenance staff and other

Basic IT skills, however, will increasingly assumed, just as simple liter-acy and numeracy are assumed today for employees, causing a transition from these types of support to direct support of people and their work.

Most service capabilities will migrate to the business: they will be logically consolidated but physically distributed. This will ensure that mobile staff have access to service using local staff and that hands-on demonstration/creation of 'informating' tools can occur. Coupled with learner-paced and computer-mediated training as well as embedded process belp, user-support will move the typical IT organisation eway from the technology and closer to the work cacb

> ben should organi-sations consider an internal service model for providing IT?

About 20 per cent of enter-prises are choosing to take up the challenge of what follows IT' by converting the IT organisation into an internal service business (which may or may not seek external clientele and profits).

The use of a business unit and a corporate shell allows the enterprise to isolate the escalating remuneration packages for IT professionals, adjudicate priority disapplication portfolio without otherwise modifying business practices. Profits, in turn, may be sought by converting needed ln-bouse applications into packages, providing trading partner support and leveraging developed IT competencies.

In addition, companies in similar industries are pooling their IT resources to create common lT vendors designed to serve their needs. An internal vendor organises itself as a subset of the external services market it contains consultaocy-style practice areas, resource pools that parallel the contractor market, infrastructure outsourcers facility managers and so forth.

- How should the IS organisation transform its planning and relationship management capabilities to balance the enterprise's often conflicting demands

For years IT managers have concerned themselves with alignment: making sure that IT investments, IT plans and IT activities match their business counterparts.

Two key lessons are being learned by the business managers of the typical company today. First, packages form a 'good enough' base in the portfolio to run most business activities, and, second, a failure to consider the long-term consequences of an IT-related decision leads to higher costs in the future. But with today's package suites, how much of the content of the IT plan is still relevant? The data architecture quickly becomes the package's data store; the infrastructure, the requirements of the package.

A high proportion of the businesses that cannot use these package suites fall into that category because their businesses are not unified or because their market sensitivity or minimal business

Continued on next page



ent system for 80.000 drawings: Raychem Wire and Cable's datalled swings can now be made available to sales offices throughout Europe with a new syst from insight Technologies, based at Farrham, in Surrey. Technical drawings that once took up to five lays to retrieve from files for sales requests can now be traced and sent in minutes

#### rather than by assembling a putes through a pricing hand into 'skill pools'. facility managed as an IT contract. So, can outsourcers ☐ How should the IS organido a less expensive job than

business case. "In the next century, out-

sourcing is as likely to turn on the total cost to own and operate a process (or at the least, an application) as it is on the cost of IT itself. Packages, for instance, offer an opportunity to leverage package maintenance, provide replicated capabilities for continuity of operations

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## Business briefing for senior managers

ore than 100 high-profile speakers are taking part in the three-day Online Information 97 conference in London from December 9-11.

The international event. which runs alongside tha Online Information show with more than 300 exhibitors, will take place at the National Hall and Olympia 2.

Wide appeal Online Information 97 is described as one of the IT world's key events for companies involved in the delivery and use of online information, aimed at a diverse audience ranging

from business leaders to broadcasters, marketeers librarians, publishers and management consultants. An executive business

briefing on corporate information resource strategies is planned for Monday, December 8 at the Novotel, Hammersmith. London. This briefing is intended for senior managers, IT directors, strategic planners and those responsible for marketing. sales, planning, communications and

information management.

Delegates will be able to

pinpoint their main areas of

interest while trainers will

the most appropriate route

be on hand to recommend

2001

A web population explosion

conference programme. Themed product presentations, satellite workshops and tutorials will also take place between

Monday, December 8 and Friday, December 12. Special features will focus on electronic publishing and information

management, while a 'Fush Pavilion' will give educational presentations on 'push' technology which automatically delivers World Wide Web content to subscribers' personal computers. Themes at the

multi-lingual main online conference, which is likely to attract more than 1,200 delegates, will include: □ Converging technologies and

online industry. □ Managing information: the solution to overload. ☐ Measuring, marketing and maintaining the information asset. ☐ The potential impact of

posh' technology.

For more details of Online information content in the Information 97, telephone +44 (0)1865 388 000; fax +44 (0)1865 736 354. E-mail: registrations@learned.co.uk: other details via www.online-information.com

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## Predictions of an IT visionary

While the Internet may be slow today, that will soon change, says IBM's John Patrick, who is also enthusiastic about the future of electronic commerce. He is interviewed here by Joia Shillingford

at the company.

lots of everyday problems by

doing business on the inter-

knows the Internet is slow -

but not for long, according to Mr Patrick. He believes

that three developments will

radically change the face of

the Net "First, bandwidth,

handwidth and more band-

width. Second, agreed stan-

dards for secure payment

Third, the abiquity of San's

Java programming lan-

Mr Patrick says: "People

tend to think of computers

as being fast - and commu-

nications as being slow, but

it is going to be just the

opposite. The backbone of

the Internet will be faster

than the speed at which you

can move data from your PC

screen to your hard disk.

The rate of progress will be

much faster in telecoms

Bandwidth can be broken

than in PCs."

But is this true? Everyone

ohn Patrick's interest in ness opportunity." the Internet began as a hobby. IBM's vice president and Internet guru recalls how, in the early 1995, this was in place. Since

1990s, he was experimenting with the Net on Saturday mornings and became impressed by the ease with which he could display lists traditional computer compaof files on connected comput-

By the time he saw the World Wide Web, with its colour graphics and links between sites, he knew "the Net would be huge". The next step was to persuade IBM. Around this time -1993 - he began talking to the board. With their support, he began to spend more and more of his time investigating this network of net-

He was working in corporate strategy, but by 1994 his job was really based around the Internet. Soon, he won the go-shead to create e virtoal Internet team.

"That wasn't hard," he recalls. There were plenty of Internet enthusiasts 'underground' at IBM. I merely enabled them to come out. What was more difficult was working out where the money was to be

In May, 1994, when IBM built its own Web site, "we could see that it was a good way to communicate with our own staff and with others. We said: "There's going to be a business opportunity here.' So we decided to organise more formally down into two parts, he around the perceived busi- says. "The backbone net-

work is rather like the M25 -IBM appoinced that it was the round-London motorway system. Then there are the roads connected to it which setting up an Internet division and, by the summer of provide 'the last mile' to the then, the division has been a user's house."

He predicts that there will catalyst for Internet activity "incredible advances" in Today. IBM is one of the the first area. Among them will be developments in: synchronous optical network nies most active in promoting its Internet expertise. technology (Sonet); asynchronous digital subscriber line (ADSL) technology, sat-Its Internet advertisements appear everywhere from terrestrial to satellite TV, to ellite communications, cable modems, and wireless netin-flight entertainment systems. IBM's message is works. Somet enables light that companies could solve polses to be flung at terrifi-

> 'It is actually safer to send credit card details over the Net than to give them out over the phone'

cally high speeds through fibre-optic (glass) cables. On standard cables it is possible to achieve speeds of 10 bits per second (bps), but on fibre, gigabit per second speeds are possible.

"It's like the difference between a one inch diameter garden hose and one with a 27-foot diameter," suggests Mr Patrick. "Already, a 10 billion bps fibre link is in operation between California and Denver."

Even faster speeds are possible in the laboratory, he adds. "In the lab, cables can operate at 100 billion bps, with the potential of a triltion bps," enthuses Mr Patrick.

There'll be a period of time when there's a lot of asyn-chronous bandwidth about," comments Mr Patrick "This means the data that

users receive from the World Wide Web - such as graphics and video - will be displayed quickly.

"Whereas information they send will be transmit- credit card details online ted at as lower rate, though

not necessarily slowly."

at one million 'out', six mil-Hon 'back'." "At one million bps, realtime videoconferencing

becomes possible. Cable moderns for use on cable TV networks also show great promise. They have the potential to provide tens of millions of bits per second." Even wireless communica-

tions, which we normally think of as slow, could become faster. Mr Patrick comments: "When you get down to the science of the matter, there's no reason why data can't fly as fast through the air as over glass and metal. What's emerging is something in a higher frequency range, such as 28 gigaherz. We could see wireless rates of tens of millions of bits per second."

Homes of the future will be receiving data through the air faster than busies receive it today, predicts Mr Patrick. But who will pay for these higher speeds? Mainly users, be says. People pay two-to-five times more for cable TV than they pay for Internet access," he says. "But that's going to change. The Internet is more useful than cable TV and people are watching TV less and using the Net

Discriminatory pricing will also be possible. A new technology called Quality of Service/Class of Service will enable service providers to give certain types of internet transaction, such as real-time videoconferencing, higher priority than others. They will then be able to charge more for them and guarantee higher transaction

High speeds alone will not be enough to ensure the success of the Net for commercial transactions. New business models are needed, says ADSL is also within reach. Mr Patrick, such as the Onsale.com Dutch auction and the half e dozen other online auctions where customers bid for tiems such as microwaves or airline tickets. However, successful electronic commerce also requires customers to feel secure about giving their

"they needn't worry," says

According to Mr Patrick, actually safer to send credit "people have ADSL today at card details over the Net than to give them out over a couple of hundred bps - than to give them out over but soon it will be available the phone. He says it is safe to use a credit card on the Net if there is a symbol of a closed lock at the bottom of the Internet browser you are

por Big Barri

This symbol means it is a secure connection, conforming to the SSL standard for encryption between the client and the server.

IBM is also working on the Secure Electronic Transaction (SET) standard, which is a standard to ensurethat the requirements of the buyer and seller and credit card-issuing bank are all met. Under SET, public and private key encryption will be used to keep credit card details secure.

Ultimately, Mr Potrick believes users will have a digital wallet on their PC where they can click on an image of a Visa card to use it. In addition, when they go to a vendor's site, they will be able to look at a digital certificate to check that it is authorised for secure transactions.

Credit card companies hope to cut losses from freed dramatically by doing busi-ness on the internet, adds Mr Patrick. One day blometrics could even be used to check that a the user is a bonafide customer, For example, a videocamera on top of a PC could check for o

face print. Mr Patrick believes that. in the future, people will not merely use the Net from personal computers, network computers or TV sets. He thinks the use of Sun's Java programming language in telephones, cars and even domestic appliances, will make access to the Net nbiq-

Because Jeva-can run on any computer - or be built into tiny application specific integrated circuits, it will be the 'glue' that links different systems to the Net.

"Jeva will enable almost any device to interact on a network and the Web will become the new graphical user interface," says Mr Patrick. "When you look at It that way, [Microsoft] Windows is irrelevant."

When you look at it that way, no wonder IBM is backing the Internet.



ally bring a boost for real-time vide Patrick. A new facility called Quality of Service/Class of Service will enable service provide ing higher priority then others, with guaranteed high transaction speeds - at a price. Pictured above is the System 4000 videocor

RUNNING THE SYSTEM . European IT Symposium

### Six guiding principles

From previous page:

strategy to survive and thrive demands IT risk-tak-ing or speed to market.

For example, in e financial institution there is not an IT plan because the 'enterprise' itself is a collection of 'businesses' pointed at a collection of 'markets,' each with its own demands for success. The result? Information

technology planning becomes business planning By 2003, suggests Gartner, 75 per cent of organisations will recognise long-term costs in their IT business case evaluation processes and business IT budgets will be required to support a system of consolidated accounts to handle contracts and enterprise-wide services.

According to Gartner analysts, the "free ride is over". Specifically, they suggest the following six principles: Nothing lasts forever (therefore set a termination

date). Business commitments are for the 'in place' period. not the fiscal year.

· Support is an obligation, not a right Transition is a process.

not an event

Projects and endeavours

terminated if they are not

 Prove the value of owning resources to keep them. And the 'bottom line', according to Gartner analysts, is that extensive outsourcing and its counterpart, creating IT service businesses, lie ahead.

Responsibility for getting results from IT, paying for the long-term costs of IT decisions and so on, is moving to the business as is control over the IT environ-During the transition, con-

sultancy practices will apply in a restructured development group. The role of the chief information officer (CiO) is changing from 'run-ning IS' to 'building commonality and strategic leadership.

To complete the scenario, Gartner consultants suggest the following career-related planning guidelines for IT managers and staff

 Endeavours will ontweigh projects for recognition of the value of your participation, except where the project creates a package that is licensed in the market

= ':;".

Business analysis, risk

will have limits and will be analysis and financial skills will be done in the business area itself; the 'consulting' model for development implies a separation of skills.

Renumeration levels in the IT industry will not materially decline following the completion of the decade, therefore enterprises will employ more labour through contractors and consultants in general. Legacy maintenance will likely be outsourced due to cost pres-

> Operations managers should develop financial management, contracting and outsourcer management capabilities, using small contracts for marginal platforms, bandwidth on demand in selected circumstances, and so on, to gain experience needed for the 'mostly outsourced' future. Staff should look for opportunities to support end-users and demonstrate value by doing so.

 And finally: learn one business-related and one management-related skill for each technical skill acquired when planning a personal career development plan for continued employability within your current enter-

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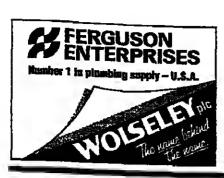
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OTHE FINANCIAL TIMES LIMITED 1997

Wednesday November 5 1997

When It's "Action" not "Consulting Speak to the People with the Instant Solution. **⟨NBS⟩** Marang 0171 493 4937 12 Offices across the UK

Barclays in

partial sale

equities arm

Barclays, the UK bank, has failed to find a buyer willing to

take over the entire equities and corporate advisory busi-

nesses of the BZW investment

banking arm it put up for sale

Credit Suisse First Boston.

the Swiss-US investment bank.

has reached a preliminary

agreement with Barclays to

buy just the UK and continen-

tal European equities busi-

of BZW

By Jane Martinson and

Clay Harris in London

INSIDE

### Japan toughens up for Big Bang

Arranged marriages appear to be going out of favour in Japan ; in business as well as in private life. Until recently, the obvious solution to the threatened failure of Sanyo Securities would have been for the finance ministry to match it with a more prosperous partner. But in the newly competitive financial climate ahead of Big Bang liberalisation, all the prospective spouses have responded with a polite but firm

Hand takes the reins at Emap

Breathing new life into



existing titles, and launching new ones, is a strategy which has served Emap, the media group, well in the UK. Now, with Kevin Hand (left) as the new chief executive, the group is likely to try the same formula in Germany and France. But will Eman

buy its rival IPC, which was put on the market last week by Reed Elsevier with a price tag of up to £1bn (\$1.66bn)? Page 21

Derivatives trades hit fresh highs Volatility on world financial markets last month led to record trading volumes on the leading derivatives exchanges. Page 22

Safe Singapore back in favour Singapore's reputation for staid conventionality has sometimes alienated south-east Asian investors. Now, however, as financial turmoil grips the region, prudence is once again a virtue.

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Market Statistics

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Bond prices and yields

Commodities prices

EMS currency rates

Eurobond prices
Pixed interest indices

FTSE Gold Mines Index

Bond futures and options

Dividencis announced, UK

FRANKFURT Rings			PARES (PPr)			
Octo Modul		5.2	Easter Minds Vicin	3114	+ 4	
Krupo Hoesch	374.0 +	23.8	Lang Dollers	179	+	
Vossion	96.5 +	5.0	Union Crd Bell	17.1	+	3.0
Falls			Falle			_
Margalle Klinik	25.0 -		Agacha .	2100	- 2	
Metro AV PI		3.7	Immedi Plain	189.1		
Hochtlef	<del>29</del> –	4	Ofresco Cinadi	1202	- 2	45
MEM AOUR (	4		TOKYO (Yen)			
Piess	218 +	24	Pilmes	000		•
AMF Bowley	212 + 29 +	3	Auber View Arch	230 219	+	~
Borders Off	2814 +	22	Hino Auto		-	4
Bouygues Off Salety Klack	25% +	3	Mopon Dry Chm	3/0	+	~
Page	204 4	-	Pells Missi	1660	- 3	50
Jin Chesa	1796 -	2	Matti Securities	110	- "	
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Rises			Patis			
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Liberty	425 +	477	Calle Pacific ·	34.5		4.3
Wednen	37 +	694	Henderson Land	41.2		ü
Falls			HK & S Hotels	6.35		1.0
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Impossible Tach	115 -	19 14	Shenonal ind	33.0	_	3.8
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TORONTO (CI	7 .		River			
Risse	18.5 +	1.5	Sinta Cort Bk	24.5		7.5
Contrart A Newcost Cred	53.95 +		Their ACC	88.5		8.0
Pracision Diff	48.0 +	3.4	That President	178	+ 1	16
Palis			<b>Falls</b>			
Devtek 2	75 -	1.5	Charoong Their	31.5		35
Manufolden Hank		12.2	Hermani 120	49.5		5.5
Wast Frame	28 -	3	Sino-Thai Bray "	29.75	-	3.2

Bourse attempts to stem flow of companies listing overseas

### Italian stock exchange set to relax rules

Italy's newly privatised stock exchange yesterday moved to simplify regulations and reduce the cost of trading in a bid to halt the drift of mediumsized companies to New York and other overseas markets. Draft proposals to be approved by a ahareholders' meeting of the bourse on November 19 will scrap the rule whereby companies must show three years of consecu-

tive profits before they can apply for a listing in Milan. Florentine fashion bouse, decided to list on the New York and Amsterdam stock exchanges three years ago after it was refused a Milan

world's leading producer of spectacle frames, Fila, the sportwear maker, and Natuzzi, a sofa manufacturer, followed Gucci's example and set off for Wall Street, bypassing Milan. In recent months, the Italian

stock market has become anx-

ious that other fashion houses such as Armani, Versace and Ferre - all considering stock market listings - would opt for foreign listings. It also fears that the so-called "Gucci factor" risks spilling over to another potentially incretive new sector, with most of the This regulation was one of country's Seria A (first divithe reasons wby Gncci, the sion) football clubs now considering stock market listings. Clubs auch as AC Milan. Juventus, Inter Milan, Bologna, Lazio, Vicenza have already said they were inter-

ested in going to the stock



mance of these clubs in recent years would disqualify most from a Milan listing under the existing stock market rules.

Under the new proposals, a company will no longer have to show it has been operating profitably in the previous three consecutive years. Instead, it will only have to show its activities can gener-Gucci has never looked back. market. Many are attracted to ate profits. It will also have to

the last balance sheet audited. The stock exchange will only consider companies whose initial capitalisation would total L10bn (\$5.9m). Companies coming to the market for the first tima will also have to be spon-

sored by a bank, an investment firm or another authorised broker. Sponsors will have to guarantee the financial forecasts and figures of the com-

previous years, with at least cial analysis of the company. At least 25 per cent of a company's capital will bave to be floated on the principal Milan market. In the case of the unlisted securities market, the minimum capital bas been raised to 20 per cent from 10 per cent

Stefano Preda, chairman of the new private stock exchange company, said the bourse aimed to attract about Several other Italian compa- London, which has taken a present to the stock market its pany. They will also have to 100 new companies to the market such as Luxottica, the lead in football stocks.

Description of the stock market its pany. They will also have to 100 new companies to the market its publish twice a year a finanket over the next three years.

caused by the entry of foreign

banks since 1995. A number of

small Mexican banks - includ-

ing Promex, Bancrecer and

Bancen - are facing problems.

Banamer said the purchase

of a small bank such as Banco

del Atlántico could be an inex-

#### This leaves the group's equity derivatives division and its businesses in Australia and Hong Kong - which represent about half of the total being sold in terms of revenues and staff - still up for sale. CSFB decided against making an offer for the equity

derivatives business and its Asia-Pacific operation partly because they overlapped with Its own operations. The whole of the business put up for sale accounted for

\$200m of the \$692m of BZW's revenues in the first half of this year. Although Barclays said the business for sale was profitable, little is known about the capital and costs allocated to it. Analysis had expected it would fetch between £400m and £500m when the sale was announced,

The exclusivity agreement allows CSFB less than a week to agree final terms. The bank is to confirm lock-in agreements with key members of BZW staff during this period. It can still walk away from any deal, leaving Barclays to

face an more uncertainty.

The outline deal is likely to pensive way of acquiring branches in the face of the be regarded as a fallure on the part of Barclays, which bad expansion plans of its rivals. It suggested to other buyers that stressed talks were still at the it wanted to sell the businesses as a unit. Some 20 banks were understood to have expressed an interest in buying parts of

BZW last month. CSFB is believed to bave lound no resistance when it put its partial offer to Barclays early this week. By that time, CSFB was the only runner. But Martin Taylor, Barclays

chief executive, said last night that be was "happy with the way things have Worked out" and defended the sales process, which has been criticised by other investment bankers. The sale was handled by

Goldman Sachs, the US invest-

Lex, Page 14

### Mexican banks start consolidation process stake in its brokerage bouse, recover from Mexico's finan- standing loans in the banking too small to survive in the

By Leslie Crawford in Mexico City

Banamex, Mexico's largest bank, is in exploratory merger talks with Banco del Atlantico, the country's eighth ranked bank in terms of assets. This begins the process of consolidation in Mexico's trou-

bled banking industry. In separate negotistions, Banacci, the financial group

By Tim Burt and Greg Mctvor in

Stockholm and Clay Harris in London

company under investigation over the alleged disappearance of SKr620m

(\$83m), was yesterday warned it could

be heavily fined or delisted if it falled

The Stockholm stock exchange has

told the company - controlled by Lord

Moyne of the Guinness brewing

dynasty - it could be penalised if it does not disclose the whereabouts of

its assets by the end of the week.

to clarify its financial situation.

New York. "The consolidation process

in Mexico is inevitable and will be faster and more dramatic than most participants Garcia-Cantera, an analyst with Salomon Brothers in New York.

He believes mergers will be driven by the banks' need to cussing the sale of a runovity try is still struggling to loans - or nearly half out-

gone to London to liaise with Britain's

Trustor, the Swedish investment criminal proceedings involving the Sweden to one of the company's

misuse of Trustor funds. Jochnm

Södeström, the officer in charge of the

case at Sweden's National Criminal

Intelligence Service, said: "The total

information we have been getting

strengthens the suspicion that a crime

Lord Moyne was said yesterday by his UK publisher to be "abroad" and

unable to be contacted. His corporate

memoir, Requiem for a Family Busi-

Accival, to Goldman Sachs of cial crisis of 1995, which led to system - on to its books. But more competitive environment the near collapse of the banking system.

Only a government bailout the cost of which is still rising about 18 per cent of the total - prevented a financial meltcurrently realise," says José down. Several banks bave been sold, while other institutions have sought foreign part-ners to recapitalise their operations.

The government has taken some \$45bn (£27.1bn) of bad

A senior Swedish police officer has ness, is due to be published next week.

Serious Fraud Office over possible SKr620m from Trustor accounts in

banks are still burdened with a high level of non-performing assets, which account for extended credit. This has put a break on new lending and added to the problems of overcanacity.

Banco del Atlántico is one of four small banks ripe for a takeover. It has 203 branches and a 4.2 per cent share of the loan market, and is considered

Swedish state prosecution service by the end of the week."

The case centres on the transfer of

accounts in London. According to

Swedish investigators, that account

has subsequently been found to con-

If the funds have been transferred

beyond the control of Trustor, it could

contravene Swedish law protecting the

rights of minority sharebolders.

tain less than SKr200,000.

Exchange threatens penalties over Trustor funds prompted the suspension of Trustor shares at the end of last week. Björn Björnsson, non-executive director and representative of minor-

ity shareholders, said a board meeting

was likely this week and that he had

been assured information would be provided to the stock market. The Stockholm stock exchange said Trustor had failed to respond to requests for information about its rights of minority sharebolders.

finances. Hans Edenhammer, head of Goldman Sa
The investigation was stepped up market surveillance, said: "We will ment hank. after preliminary inquiries by the have to consider what action to take

### **Barry Riley**

has been committed."

### Stock markets do have a downside, after all



http://www.Ff.com

FISE Actionies shere indices 30

22 Foreign exchange

London share service

Short-term int rates

was brutally frank. "It's only a mattar of go under," he said, after readthe ace trader's book The Education of a Speculator, pnblished earlier this year.

Unfortunately, the unnamed friend turned out to be only too right. Niederhoffer's \$110m week, evidently positioned the wrong way in S&P Index conber, hedge funds in general had been performing excep tionally well, with global equity funds returning an

months, according to Evalua-

now been reminded of the true risks in the markets. It might have been a lot the height of worse. Some massive official support exercises have been mounted - potentially more than \$30bn for Indonesia, for instance. Foreign central nomic meltdown in the Far \$15bn in US Treasuries from downgrading. According to the last two weeks, presumably to help finance currency

support measures. Nevertheless, Treasury bond yields have, if anything, gone down. The popular explanation of last week's gyrations on Wall Street and in Europe seems to be that bearish professional investment managers have the US and Europe while govattempted to switch into "safe havan" bonds and cash, but their attack on the stock mar- tions on to privately funded the beight of their bubris." ket has been largely neutral- schemes. Meanwhile, the over- That looks like sound advice.

ised by placky small investors who have piled in at lower prices. Oddly, though, those small punters complained of anything, buy it back. So equiinability to trade because their brokers' phones were blocked. In terms of fundamentals the

ing a draft of dent overoptimism on corexpectations run at 14 per cent a year both in the US and continental Europe.

Whether investors hava moot point. But, from whattracts. Until the end of Septem- ever base assumption, the eco-

'The markets avarage 31 per cent in nine usually find a tion Associates. But we have way to take down traders at their hubris'

banks have withdrawn some East has required a significant US Federal Reserve custody in Merrill Lynch, US insiders are since 1992, indicating company directors know earnings shocks are coming.

But, "new paradigm" investors tend to ignore the conventional value measures. They point to fast-dwindling govern ment bond issuance in both ernments prepare to offload more social security obliga-

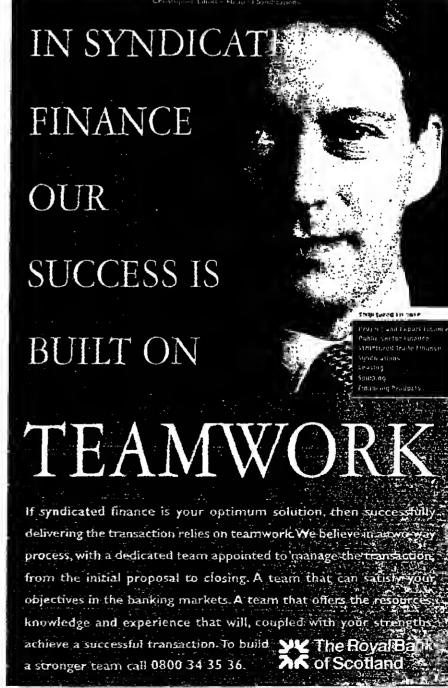
riding corporate trend is for incentivised managements to economise on equity and, it ties, say the bulls, will be squeezed much higher.

However, if you feed the Far main challenge to the stock East into this picture, modifimarket has come from the evi- cations are required because rapid capacity expansion conporate earnings growth. tinues there in basic manufac-Bottom-up I/B/E/S growth tured goods - from cars to computer chips - seemingly regardless of profitability. So the more commoditised sectors of manufacturing must, bedge fund was wiped out last reelly believed such rosy con- around the globe, miss out on sensus projections in full is a any party. All the same, this leaves plenty of relatively protected sectors for the long-term

> But remember that in Japan in 1989, stocks could also only go higher and higher. Now we wait for the consensus US earnings forecasts to catch up with reality. We also wait for investors to apply higher risk premiums to equity investments after a period in which, on some calculations, the premium had shrunk to little more than 2 per cent.

Already emerging markets bays suffered one of their familiar shakeouts. In bonds the spread on J.P. Morgan's EMBI+ Index against US Treakeener sellers than at any time suries has shot up within 8 week from 340 to 800 basis points. These shifts are painful if you are exposed - maybe lethal if you are leveraged.

"A string of good trades can sometimes lead to inattention to detail and subsequent losses," wrote Niederhoffer in his 400-page magnum opus. "The markets usually find a way to take down traders at



#### COMPANIES AND FINANCE: THE AMERICAS

## Aetna profits slide after \$103m charge

care.

Fizzy or flat: Mixed results from Dr Pepper/7 Up's brands

doe in part to the planned by the end of next year.

By John Authers in New York

Aetna, the US life and health insurer. yesterday announced operating profits of \$59.1m for the third quarter, down sharply from \$136.9m in the same period last year, after a \$103m charge to cover increased reserves in its bealth management business.

end of September, initiating trading,

By Richard Water:

drink company owned hy

UK. vesterday announced

around one in 10 of its work-

The naws came after a

soft drinks sales in the US

growth rate set by its two

larger rivals, Coca-Cola and

PepsiCo. However, DPSU

called the move "voluntary"

tive pressures or by an order

While Dr Pepper, the com-

been growing faster than the

3-4 per cent rate of the US

from its British parent.

Dr Pepper to

shed 110 jobs

Dr Pepper/7 Up, the US soft and Crush to a move by

Cadbury Schweppes of the ated with the company's big-

plans to cut 110 joba, or from their distribution chan-

year in which the company's DPSU said it was not reduc-

bave fallen behind the Also yesterday, the company

and denied it had been ties, and said be would join

pany's flagship brand, has ny's operations that had

The

prompted either by competities management board.

for several bealth management organisations.

It said it was still having problems integrating US Healthcare, the largest HMO in the US, which it bought last year for \$8.9bn. However, earoings per

share, at 98 cents a ahare before the charge, were below the \$1.02 which had been predicted by a consen-The charge was in line sus of analysts polied by with a profits warning the First Call, and the compacompany announced at the ny's shares fell in morning

lagged. A spokesman attri-buted the decline in volume

sales of hrands such as 7 Up

some bottlers who are affili-

ger rivals to drop its brands

nels in favour of others sold

In spite of the job cuts.

ing its marketing efforts.

named John Clarke as lts

first chief advertising officer,

responsible for all its brand

advertising and media activi-

resulted from the first thor-

ough review into the compa-

been conducted for some

years, and involved mainly

soft drinks market as a administrative positions, a in Dallas, with the reduc-

whole, its other brands have spokesman said. This was tions due to be completed

job reductions

by Coca Cola or PepsiCo.

shares had slipped \$1 to

Richard Huber, chief executive, admitted he was disappointed by the higher medical costs which had lowered Aetna's health insurance earnings. But he added that health integration was continuing and that all HMO systems conversions in markets which did not overlap had been completed.

Cathy Seifert, equity analyst at Standard & Poor's, the rating agency, said the also reflacted a steady national growth was going next five years.

By midday, the company's charge reflected a combina- expansion in Aetna's well. Operating earnings for tion of factors. She said: price earnings ratio after the Aetna There are macroeconomic acquisition, as investors increased 25 per cent over trends in the healthcare sec- reacted positively to the the year to \$34m, in spite of tor, where you've got slowprospects for the healthcare ing revenue growth while healthcare costs are rising. The company's other busi-A separate trend is the prob-

nesses, offering retirement lem integrating US Healthsaving and fund management products in the US and She added that the dip in a range of international marthe company'a stock suggested that Wall Street kets, fared better. Aetna Retirement Services saw its had "oot totally digested" assets grow 33 per cent over

International start up investments in Argentina, Indonesia and the

Philippines. Since the end of the third quarter, Aetna has announced a deal to sell life insurance in China, only the second US company to be licensed to do so. Mr Huber said last month that healththe information which Aetna the year. care would provide the bulk had released in September. It Mr Huber added that inter- of Aetna's growth for the

### Infoseek deal **boosts Borders**

By Nikki Tait in Chicago

Shares in Borders, the second largest US book retailer and owner of the Waldenbooks chain, jumped 11 per cent yesterday, after the Michigan-based company announced a two-year agreement with Infoseek.

The deal will see Borders become the exclusive bookseller and provider of "bookrelated content" on Infoseek's search internet ser-

Borders also said it expected to launch its "Borders.com" online bookshop in January next year. The arrangements with Infoseek. which is based in California. are dne to start operating at this time. Borders' internet initiative will be further bolstered through agreements with the likes of Salon, the online literary magazine, and Harvest, the out-of-print book-search company.

Borders' impending internet launch is the latest in a series of efforts by the big hookseliers to muscle into the fertile online book-retailpioneered by Amazon.com. also opened its own online, order-taking web site. The aim of the deal with

ing sector. The idea of selling books over the worldwide web was largely which took its shares public earlier this year. Since then, however, Barnes & Nohla. the leading US bookseller.

Infoseek, one of the main

wide weh, is to push customers in Borders direction. An individual sending a search request for information on retirement plans via Infoseek, for example, will automatically receive information on books that relate to

the same subject. Under the agreement between the two companies, Infoseek will receive an undisclosed percentage of all hook sales, and the two companies will flag each other's services on their respective sites. There is also a recipro cal promotion agreement.

Borders said that, given the internet possibilities and "other strategic spending", lt remained confident it could grow earnings per share by a 25 per cent annual rate from

It added it expected to report break-even results for the third quarter of 1997. slightly better than analysts forecasts, which averaged a loss of 0.03 cents a share, according to First Call. It would also endorse an increase in the full-year earnings estimates for the current consensus of 94 cents to 97 cents, in the light of the slightly better third quarter. The third-quarter earnings announcement will be made on November 17.

Bot Wall Street wasted little time digesting the news: Borders shares were marked \$2% higher by lunchAMERICAS NEWS DIGEST

### The Equitable advances 73%

Equitable Companies, the US financial services group which stretches from insurance through fund manage ment to Donaldson, Lufkin & Jenrette, yesterday announced a 73 per cent increase in after tax operating earnings to \$188.4m for the third quarter. Its businesses continued to benefit from the strong stock markets during the period. Shares rose \$17 to \$43%.

DLJ's earnings more than doubled, up 114 per cent at

\$120.3m. The exceptionally favourable conditions for Wall Street during the period, including significant fee income growth from mergers and acquisitions, drove the increase Earnings for The Equitable's insurance operations. which concentrate on retirement savings products such as annulties, rose 42 per cent to \$102.8m. Earnings were improved by strong investment performance, while total premiums, helped by demographic factors, rose 27 per

Operating earnings at Alliance Capital, which operates both mutual funds and institutional pension funds and has started a campaign to expand into Latin America. rose 35 per cent to \$66.2m. buoyed by both the strong equity markets, and high net in flows of cash, which were in line with the trend for the industry. Total assets under management rose 25 per cent to \$43.6bn over the 12 John Authers, New York

**■ COMPUTING** 

#### Apple, CompUSA in retail link

Apple Computer said it and CompUSA were joining forces to launch a new "store within a store" retail format for selling Apple products and technology within CompUSA Computer Superstores across the US.

CompUSA said its Computer Superstores would be dedicating significant retail space to Apple computers, software, peripherals and supplies as well as staffing the areas with Apple-trained employees.

CompUSA said it would fit out all its Computer Superstores with dedicated "store within store" environments. It said it expected to fit out more than 40 locations in key markets before the peak holiday selling season and planned to introduce the new environment in its Superstores nationwide within the next three to five months. AP-DJ, Cupertino, California

BANKING

#### Appointments at BT Alex. Brown

Bankers Trust has created an additional layer of management at BT Alex, Brown, the unit created on September 1 as a result of the merger of Bankers Trust and Alex.

Ted Virtue, executive vice-president and head of global finance at Bankers Trust, has been appointed to the additional post of president of BT Alex. Brown. He will report directly to Yves de Balmann and Mayo Shattuck, vicechairmen of Bankers Trust and co-chairmen and co-chief executive officers of BT Alex. Brown, Mr de Balmann came from the BT side and Mr Shattuck from Alex. Brown. The move is likely to be seen as Bankers Trust exerting its authority over its acquisition.

Tracy Corrigan, New York

Comments and press releases about international companies coverage can be sent by e-mail to international.companies@ft.com

## Waste Management bolsters board

By Nikki Tait

Waste Management, the Chicago-based garbage disposal group whose share price was rocked last week when its newly-appointed chief executive unexpectedly dent and chief operating offiquit, yesterday attempted to cerns by bolstering its board

and executive committees. Two new independent of the company's founders directors were named - Rod- and the focus of some inveserick Hills, a former chair- tor disqulet, end any active man of the Securities and role on board committees. Exchange Commission, and John Pope, a former presicer of United Airlines.

internal audit, nominating

will see Dean Buntrock, one Steve Miller, who stepped

installation of SAP's compa-

ny-wide software package.

which was expected to

streamline the company's

Most of the jobs will go

from DPSU's beadquarters

activities.

in as acting chief executive after Ronald LeMay's sudden departure, reaffirmed the The reorganisation of the company would take a nternal audit, nominating "more conservative" "more and "reshaping" its audit and executive committees accounting approach which last week.

could result in lower future reported earnings. He added he was still unaware of any review which would lead to a restatement of previous year

While saying that it had

not been required by Cad-

bury Schweppes to take the

action, DPSU said the review

that led to the cuts had

begun earlier this year as

part of the UK company's "managing for value" pro-

earnings, but admitted that this remained a possibility. Waste shares gained \$15 to \$24% on the news, having slumped from around \$29



## You already work in the finance industry. Do you really need to read about it as well?

t's a fair point. What can you read that will be more valuable to you than time spent on the job itself? But, as a \_\_\_professional working in banking or finance you will have already realised two key facts:

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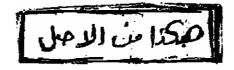
understanding of the financial markets.

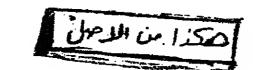




dumax pr

Putnam :





of around DM5bn to be

divested. A notable recent

disposal was the 30 per cent

stake in E-Plus, the third

Both men have clearly

largest German mobile-

defined goals for return on

capital employed. Mr Vogel is seeking 12.5

per cent for the Thyssen

group. According to ana-

lysts, he fell below this tar-

get in the business year to

end-September 1996, when

the group achieved just

under 10 per cent. Mr

Cromme's target is a return of 15 per cent. According to

Deutsche Morgan Grenfell,

the return recently has been

Both Thyssen and Krupp

are important producers of

vehicle components and

could become a powerful

force in this sector. The two

groups' trading divisions

could also yield economies of

the effects on employment

would be slight and spread

panies expect their merger

to be a prelude to new

expansion, probably in rela-

tively undeveloped markets such as south-east Asia and

The meeting also left one

important personnel deci-

sion for later this month.

The supervisory boards of

Krupp and Thyssen have yet

to decide whether it will be

Mr Cromme or Mr Vogel

wbo will bead Germany's

largest engineering group by

with 45 per cent of Hypo-

decision by Volkswagen, the

German motor company, to postpooe its planned DM6bn-DM8bn capital

increase in the face of mar-

The new Bavarian bank,

Hypo- and Vereinsbank, will

be the largest mortgage

ambitions to expand further

in regional markets in

retail. corporate and asset

management business. Bnt

it does not intend to become

Albrecht Schmidt, head of

Vereinsbank, will become

a big investment bank.

lead through the distinctive strat-

egy of focusing on the management

of so-called 401(k) defined-contribu-

Its success bas belped it to

become the fifth largest mutual

\$190bn. But in overseas markets.

the company is known for a steady

approach to business development.

funds for Grupo Bipop, a medium-

sized financial company, repre-

sents Putnam's most developed

overseas market. In Japan, it

opened a branch in 1981 whose

operations were limited to selling

investment trust products through

Italy, where it manages mutual

managing about \$30hn.

ket turmoil.

The US investment bank Bank's shares, was in con-

led the global offering, trast to the embarrassing

DM100.6, down DM1.20 - to bs called Bayerische

optioo, to satisfy extra lender in Europe and has

**Peter Norman** 

South America.

Yesterday's statement said

about 10 per cent.

scale and synergies.

phone network.

Acceptance of

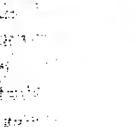
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#### **COMPANIES AND FINANCE: INTERNATIONAL**

## Steel groups give in to lure of wedlock

Thyssen and Krupp Hoesch put the synergies from their merger at a minimum of DM450m a year

alks round a table have succeeded where a hostile takeover bid failed. Yesterday's news that the supervisory and managing boards of Thyssen and Krupp Hoesch reached a basic agreement to merge the two Ruhr-based steel and engineering groups was surprising only in its speed.

Despite upsets, it has been increasingly likely that the two would agree a marriage. The potential benefits uncovered in March when Gerhard Cromme, Krupp chief executive, was caught planning a debt-financed bid for his larger rival Thyssen, havs proved more persuasive than the attractions of indepen-

The decision to merge Thyssen and Krupp would probably never bave come without Mr Cromme's aborted bid, planned with the belp of the Frankfurt branch of Goldman Sachs, the US investment bank.

But yesterday's statement from Thyssen and Krupp reeked of an earlier age of German corporate governance. The roll-call of those deciding the future of the two companies was a "Who'a Who" of the Ruhr region.

The meeting was convened by Bertold Beitz, the 84-yearold former Krupp chief exec-utive who now presides over tbe Krupp foundation, Krupp's biggest shareholder, and Günter Vogelsang, 77, another former Krupp chief and heavy industry troubleshooter who is now honorary chairman of the Thyssen supervisory board.

the likely synergies from a

By Nikki Tait in Chicago

could add close to \$90m to

ther \$18m from productivity

gains and reduction in the

The main loss of jobs has

already occurred with the

recent reorganisation of the

company's semi-solid forging

operations, where about 300

A smaller number of jobs

are being lost at Alumax's

Texarkana rolling mill,

positions were shed.

By Gwen Robinson and

Putnam Investments, a leading US

fund manager, is aiming to make

Japan its largest overseas market

Putnam is stepping up its plans

to move into Japan's lucrative pen-

sion management market on the

back of a recently concluded tie-up

with Nippon Life, Japan's largest

The strategic alliance, sealed in

September in Tokyo, is the most

comprehensive yet between a large

How the two companies manage

their partnership will be closely

watched by foreign asset manag-

foreign fund manager and Japa-

for its operations outside the US.

Gillian Tett in Tokyo

nese life insurer.

workforce.

productivity measures which workforce.

It said that around \$69m not be weighed by this year's

which has been changing its show up in fabricated



DM550m of financial benefits accruing annually from the merger of the two groups' flat steel interests into Thyssen Krupp Stahl. The company, in which Thyssen has 60 per cent and Krupp a 40

ing in September. The statement gave no indication of the final shape of the merged company. But it is thought the two sides

Alumax, the third largest of kets. Alumax employs earnings after tax, compared the US aluminium producers, said yesterday it had identified cost-savings and 2-3 per cent of the total decording to First Call, analysis of the same identified cost-savings and 2-3 per cent of the total decording to First Call, analysis of the same identified cost-savings and 2-3 per cent of the total decording to First Call, analysis of the same identified cost-savings and 2-3 per cent of the total decording to First Call, analysis of the same identified cost-savings and 2-3 per cent of the total decording to First Call, analysis of the same identified cost-savings and 2-3 per cent of the total decording to First Call, analysis of the same identified cost-savings and 2-3 per cent of the total decording to First Call, and the same identified cost-savings and 2-3 per cent of the total decording to First Call, and the same identified cost-savings and 2-3 per cent of the total decording to First Call, and the same identified cost-savings and decording to First Call, and the same identified cost-savings and decording to First Call, and the same identified cost-savings and decording to First Call, and the same identified cost-savings and decording to First Call, and the same identified cost-savings and decording to First Call, and the same identified cost-savings and decording to First Call, and the same identified cost-savings and decording to First Call, and the same identified cost-savings and decording to First Call, and the same identified cost-savings and decording to First Call, and the same identified cost-savings are considered to First Call, and the same identified cost-savings are considered to First Call, and the same identified cost-savings are considered to First Call, and the same identified cost-savings are considered to First Call, and the same identified cost-savings are considered to First Call, and the same identified cost-savings are considered to First Call, and the same identified cost-savings are considered to Fir

boost to future profits before

tax, in comparison with 1997.

expected about \$20m of the

profits improvement to fall

in its primary aluminium

operations; about \$15m in its

semi-fabricated businesses;

and the bulk, or \$52m, to

deregulation.

tie ups can maximise opportunities in Japan's "Big Bang" reforms.

Foreign interest in the Japanese

pension market has grown in step

with the government's plans for

tions has sncouraged Japanese

companies and public pensions to

use foreign groups for their portfo-

lio investments - and has conse-

quently left many groups scram-

of Putnam Investments, said that

under the Nippon deal. Putnam

will develop products for Japanese

institutional pension clients and

manage Y80bn (\$662m) in assets

The products will be sold and

globally for Nippon Life.

Lawrence Lasser, chief executive

bling to boost their presence.

Already, the relaxation of restric-

The company said that it

Alumax pinpoints

savings worth \$90m

per cent stake, began operat-

DM450m (\$259m) a year. To the Krupp foundation, curthis has to be added the reptly owner of 51 per cent of Krupp, as the largest shareholder in the new con-

> Other big abareboldsrs would include the Iranian state, which holds 22.5 per cent of Krupp, and West-deutsche Landesbank Girozentrale, which has 9.55 per ceot of the Essen-based

Because Krupp is smaller than Thyssen, the Krupp have been discussing the foundation's stake would exchange of their existing almost certainly be less than shares for equity in a new 20 per cent of the merged company rather than a company. Thyssen, with structure based on holding about 140,000 shareholders, the respective groups.

lysts are currently estima-

max's underlying profit for

The company said it was looking at introducing a per-

formance improvement plan.

devised with Boston Consult

ing Group, encouraging divi-

sions to meet balance sheet

and profit targets, rather

Putnam allies with Nippon Life in Japan

assets of about Y39,000bn.

offer about 12 pilot funds.

which has a sales force of 76,000.

17.5m policybolders and total

Initially, Putnam will focus on

six pilot funds it has established in

Japan in six different asset classes.

and expects them to attract about

\$850m in assets by the year-end.

Eventually, the group plans to

Putnam will train Nippon Life's

employees in investment manage-

ment, marketing and client service,

and will share data and research

with its Japanese partner.

Meanwhile, the relationship

between the two groups was also

boosted when Putnam recently

took over an equal stake with

Nippon Life ln Panagora, a

Boston-based asset management

Notice to Holders of

company.

the period was \$101.2m.

product mix and producing operations. It said that the

for more specialised mar- overall additional benefit to

In addition, Alumax's ting earnings per share of future pre-tax results will \$2.54 for 1997.

It said that around \$69m not be weighed by this year's in the first nine months of would come from internal \$13m one-off charge in 1997, Alumax reported a loss stage of the merger to create

cost efficiencies, and a fur-respect. of the forging of \$13.5m, after tax and Germany's second largest

operations reorganisation - charges on sales of \$2,15bn. leaving the company to cal Excluding all special items

culate an overall \$100m and dividend income, Alu-

merger at a minimum of companies. This would leave bas a far more diversified ownersbip structure, although Commerzbank and the Allianz insurance group bold 11.5 per cent through a joint holding company.

hat Paul Achleit ner, a partnar Frankfurt, yesterday termed "strategic logic" led to the decision to merge. Both Thyssen and Krupp bave been pursuing similar strategies of concentrating on core businesses and striving for a clearly defined return on capital to increase the sharebolder value of

By Andrew Fisher

bank.

markets.

Bayerische Vereinsbank has

raised more than expected

from German and interna-

tional investors through a

capital increase totalling

about DM3.5bn (\$2bn) to

The bank said last night

that the move had aroused

considerable interest among

domestic and foreign inves-

tors, in spite of the difficult

situation on world capital

"This is the first big.

highly visible transaction

done in Europe since all the

market difficulties." said

Andrew Wilson, co-head of

Mr Cromme has transformed Krupp since taking over as chief executive in the late 1980s.

A significant breakthrough came in 1992 with the successful bostile takeover of the Hoesch steel and engineering group. Since then Mr Cromme has pared the number of companies in the Krupp group from 160 to about 75 and increased production abroad from about 10 per cent to more than 40 per cent. Dieter Vogel, Thyssen

chief executive since March 1996, adopted a similar strategy, and this year identified activities with annual sales

Vereinsbank issue beats

equity capital markets in

together with Vereinsbank

and its merger partner,

Bayerische Hypotheken- und

With the new shares

priced at DM98 - compared

with yesterday's close of

the offer raised oearly DM1.7bn. The "greenshoe"

demand from investors, is

likely to increase this to

This is in addition to the

rights issue, already com-pleted, under which Vereins-

bank raised DM1.6bn. These

shares were priced at DM85.

The successful Vereins-

bank issue, which follows a

This was previously beld by Lehnan Brothers and has about \$15bn In the US, Putnam has gained a

market and intended to pursue a tion pension funds for companies

Europe for J. P. Morgan.

market expectations

Wechsel-Bank.

nearly DM2bn.

man Brothers and has about \$15bn

Mr Lasser said Putnam was just

beginning its entry to the pension

gradual strategy of developing

business. "We are not poised to

compete in the growth-in-assets

derby so popular among invest-

ment firms, we are interested in

investment performance," he said.

adding that be was unconcerned

about competition from Japanese

tion unless they tie up with foreign

firms," he said. "Japanese fund

managers are smart, hard working

bere, it doesn't mean they can't

learn, but they are certainly

and adaptable. But it's a new game

"There won't be serious competi-

under management.

fund managers.

INTERNATIONAL NEWS DIGEST

### Newcourt eyes AT&T Capital

Newcourt Credit, the acquisitive Canadian commercial and corporate finance group, is in talks to acquire AT&T Capital, the asset-backed lending organisation spun off from the US long-distance telecommunications company last year in a management buy out valued at \$2.2bn.

The deal would be the largest acquisition yet by New-court in a series of mergers which have seen it buy its companies in the last six years, a process which has made it the sixth largest commercial lender in North America Its last significant acquisition was BTF from Lloyds TSB of the UK for about \$500m.

Newcourt's strategy is to add businesses which allow it to service its clients, which include Dell Computer, on a global basis. Neither company was prepared to confirm when they expected the talks to be completed. AT&T Capital, which is 98 per cent owned by Nomura

International of London, also announced third-quarter results yesterday. These showed uct profits of \$13.2m for Total revenues were \$404.5m, down 4.7 per cent cool-

pared with the equivalent period of 1996. The company attributed this to lower lease revenue, resulting from its \$3.1bn asset securitisation last year, and from higher rela John Authors, New York

#### ■ GERMANY SGL sees double-digit growth

SGL Carbon, the German carbon and graphite producer, yesterday forecast double-digit profit growth for 1997 and 1998 in spite of an exceptional charge of about 11M45m out throughout the world. This suggests the two com-

> "The order books support our confident outlook for the fourth quarter. Our optimistic forecast for the full year 1997 therefore remains intact despite considerably higher one-time rationalisation costs," Robert Koehler, management board chairman said.

Announcing nine-month results broadly in line with analysts' expectations. Mr Kochler sald profit growth in 1998 would be "well into double figures", boosted by the company's restructuring and rationalisation programme.

Growth over the first nine months was driven by a recovering European steel industry - a key customer for SGL's products - as well as currency effects from a stronger dollar and several 1997 acquisitions. Pre-tax profit climbed 11 per cent to DM248m, exactly in line with forccasts by BHF Bank and slightly below the DM 254m predicted by WestLB Research. Sales climbed 17 per cent to

SGL's shares outperformed the market after the results. closing at DM241, a fall of DM1.2. "The results were fairly solid, as expected, and the outlook was reasonably bull-ish," one dealer said. "The shares were strong immediately after the results came out but lbey bave come off now with the market." SGL said the expected exceptional charge was com-

posed of a DM10m charge for a product recall in the US and about DM35m in restructuring costs for its European operations. About DM30m was included in the nine-month figures, leaving charges of DM15m to be included in the fourth-quarter results.

#### GLASS

#### Saint-Gobain to build UK plant

French glassmaker Saint-Gobain said yesterday it would build a flat glass production line in Britain, representing investment of FFr600m 1\$103m). The plant will have annual capacity of 170,000 tonnes and is expected to start output by the end of 1999 at the latest, a spokeswoman

Up to now, Saint-Gobain has sourced its annual sales in Britain of 17m square metres of flat glass from plants in France, Belgium and Germany. The British plant is aimed at "optimising our logistics," the spokeswoman said. She declined to say where the plant would be located.

#### CHINA

#### Everbright in joint venture talks

China Everbright Technology, one of the Hong Konglisted arms of the acquisitive China Everbright Holdings. is understood to be negotiating a China joint venture. The venture, involving mainland independent parties, will provide data communications and is expected to target eastern Chinese provinces. The talks come ahead of the company's impending entry into Hong Kong's red-clup index, which tracks mainland-backed companies. Louise Lucas, Hong Kong

### ■ PORTUGAL

#### BPI up 43% in third quarter

Banco Portugués de Investimento, Portugal's fifth larvest financial group, lifted third-quarter net iocome 43 per cent to Es17.3bn (\$98.3m), up from Es12.1bn in the same period last year. The results are not directly comparable because of BPI's Es136bn acquisition of Banco de Fomento e Exterior in September last year. BFE began to be consolidated in the group's accounts in

the last quarter of 1996. BPFs total assets rose from Es2,889bn in December 1996 to Es3.012bn in September

Peter Wise, Lishon

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#### ers, as a test of whether such promoted through Nippon Life, Notice to Holders of

#### Thermo Instrument Systems Inc. 3%% Senior Convertible Debentures due 2000

NOTICE IS HEREBY GIVEN by Thermo Instrument Systems Inc. ("the Corporation"), pursuant to Section 7(a)(v)) of the Fiscal Agency Agreement dated as of September 15, 1993 among the Corporation, Thermo Electron Corporation and Chemical Bank (predecessor to The Chase Manhattan Bank), as Fiscal Agent, that, effective as of October 21, 1997, the conversion price of the Corporation's 34% Senior Convertible Debentures due 2000 will be adjusted from U.S. \$16.9334 to U.S. \$13.5467. This adjustment reflects a five-for-four solit of the Corporation's Common Street. oe agresses from 0.3. 3 0.353 to 0.3. 313.350. The augustitein reflects a five-for-four split of the Corporation's Common Stock, U.S. \$0.10 per valua per share, to be paid in the form of a 25% stock dividend on October 31, 1997 to shareholders of record as of

> **FUJITA CORPORATION USA** US \$ 25,000,000

**GUARANTEED FLOATING RATE NOTES DUE 1998** 

in accordance with the provisions of the above mentioned

Coupon amount payable per Bond of US \$ 100,000: US\$ 3,063.75

# Interest period: November 4, 1997 to May 5, 1998 (182 days)

By: The Chase Manhattan Bank as Fiscal Apent November 5, 1997

notes, notice is hereby given as follows:

# Interest payment date: May 5, 1998.

# Interest rate: 8.06016% per annum



Thermo Instrument Systems Inc. 41/2% Senior Convertible Debentures due 2003

NOTICE IS HEREBY GIVEN by Thermo Instrument Systems Inc. ("the Corporation"), pursuant to Section 7(g) of the Fiscal Agency ement dated as of October 24, 1996, among the Corporation, mo Electron Corporation and The Chase Manhattan Bank, as Fiscal Agent, that, effective as of October 21, 1997, the conversion price of the Corporation's 41/2% Senior Convertible Debentures due 2003 will be adjusted from U.S. \$43,07 to U.S. \$34.456. This adjustment reflects e five-for-four split of the Corporation's Common Stock, U.S. \$0.10 par value per share, to be paid in the form of a 25% stock dividend on October 31, 1997 to shareholders of record as of October 20, 1997.

By: The Chase Manhattan Bank as Flacal Agent November 5, 1997



ABN AMRO Bank N.V. ITL 150,000,000,000

### NOTICE OF EARLY REDEMPTION

11% Notes 1995 due 1998

Notice is hereby given that the above mentioned Notes will be redeemed on 28 November, 1997 in conformity with the Terms and Conditions at a redemption pike of 100%. Interest on the Notes will cease to accuse on 28 November, 1997.

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#### ANTOFAGASTA HOLDINGS P.L.C. Notice to Stockholders

Following the completion on 29 October of the sale to Japanese Consortia of a 40% interest in Minera Los Pelambres and the signing of financing agreements to provide finance for the development of the Los Pelambres project, the £121,417,085.35 convertible unsecured loan stock issued by Antofagasta Holdings P.L.C. on 13 August 1997 comprising 29,527,129 stock units of 415 pence each will be redeemed today and ordinary shares of 5p each in the Company will be issued fully paid to stock unit holders on the register at the close of business on 4 November 1997 at the rate of I ordinary share per stock unit. Dealings in the new ordinary shares will commence today.

£40,000,000 Notes 1998 For the six mooths 31st October, 199 our use six months July October, 1997 to 30th April, 1998, the None will carry an interest Rate of 8.1125% per annum with an interest amount of \$20,114.55 per \$200,000 None, payable to \$100,000 per \$100.000 None, payable to \$100,000 per \$100.000 None, payable to \$100.000 \$1

#### THE KOREA - EUROPE FUND LIMITED

International Depositary Receipts evidencing Beneficial Certificates representing 500 Units

Notice is hereby given to the shareholders that The Korea - Europe Fund Limited has declared a final dividend, to be paid as a foreign income dividend, of US\$ 0.03 per share.

The Record-date for the dividend is September 26, 1997. Payment of coupons no.11 of the International Depositary Receipts will be made on November 7, 1997, in US dollars at the rate of US\$ 15.00 per IDR.

Payment will be made at one of the following offices of Morgan Guaranty Trust Company of New York: Brussels, Avenue des Arts 35 - London, Victoria Embankment 60

Morgan Guaranty Trust Company of New York 35 Avenue des Arts, 1040 Brussels JP Morgan

USD 150,000,000 SOLVAY FINANCE (Bermuda) LTD Floating Rate Notes due 1998

Serie 1 USD 120,000,000 6.28516% Interest Rate Interest Period

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## KLM forecasts record year after interim surge

COMPANIES AND FINANCE: EUROPE

By Gordon Cramb in Amsterdam

KLM "is poised to surpass its Alitalia. previous best performances" in its current year, the Dutch flag carrier said yesterday, releasing first-half net profits more than douhled to Fl 1.07bn (\$547m) from FI 529m.

After resolving a dispute with Northwest Airlines of the US over issues of control in their eight-year-old tie-up, it hopes to reach accord with a European partner by the time its financial year ends

the moment we are speaking only to Alitalia." Management of the state-controlled Italian airline, which has just emerged from a financial restructuring, is keen on under political pressure to took place; net earnings no signs of it. The new KLM

interested in a pact with

KLM has previously made clear that for its part, such a ferred stock holdings in deal would not involve equity links. Those with Northwest are being unwound as a result of an agreement this summer. under which their transatlantic operating partnership is being broadened.

Interim net earnings included a Fl 421m book profit on the sale of a first. tranche of ordinary and prefin March.

Rob Abrahamsen, chief where the board had put up financial officer, said: "At a fight against KLM's plans erence shares in Northwest, where the board had put up to lift its bolding above 20 per cent. In the 1996 first. half, FI 376m was booked following the sale and revaluation of preference shares.

For the second quarter an alliance with KLM but is alone, when the latest sale

consider Air France as an totalled F1884m. The equiva-alternative Swissair is also lent period of last year brought in Fl 258m, of which F) 131m derived from the rearrangement of KLM's pre-

> Barring adverse changes in the world economic picture, exchange rates and fuel prices, Mr Abrahamsen said, "KLM will have the best year in its history". That would beat the Fl 547m net profits recorded two years before. Analysts were last night upgrading their 1997-98 forecasts after an interim result which exceeded their expectations.

While adding the full-year outlook assumed the group would escape any impact from recent upheavals in south-east Asian economies, Mr Abrahamsen went on: "We expect our traffic will not be affected, and we see

A rationalisation programme - introduced last November and aimed at saving Fl 1.5bn over three years contributed Fl 150m of the FI 482m improvement in first-half operating income. which reached F1754m. Mr Abrahamsen described this as heartening and said a similar benefit would follow in the current eix months.

Other factors alding the improvement were a stronger dollar, volume growth in traffic and better demand for business class seats. Passenger load factor was 81.4 per cent, up from 76.8 per cent. Cargo showed on improvement in spite of reduced capacity as KLM focused on more profitable routes.

Japan Air System has just joined nearly 25 airlines with which KLM has co-operation



Winning ways: Steffi Graf is the public face of Adidas

### Strong US performance helps lift Adidas 64%

Adidas yesterday surprised investors with a stronger than expected increase in third-quarter pre-tax profits and revealed that two board members would be selling part of their stakes in the German sportswear group. Adidas, which is taking over Salomon, the French sports goods company, said pre-tax profits rose 64.4 per cent to DM307m (\$176.8m) in the period, underlining its growing success in the battle against US rivals Nike and Reebok in the world sportswear market.

Adidas said Robert Louis-Dreyfus, chairman, and Christian Tourres, a fellow director, would each sell 500,000 Adidas shares. They would continue to hold about 4.9 per cent each of Adidas share capital.

Valued at yesterday's closing share price, the combined stake to be sold is worth about DM249m. although analysts said the shares were likely to be sold

at a small discount. The sale chief executive of Saatchi - co-ordinated by UBS - will and Saatchi, the UK advernot involve a book-building process and the two directors are not expected to sell

more of their stakes. The sale is to recoup personal debt inherited by the two directors in April when they bought shares from Sogedim, a Belgium-based investment company which had held a minority stake in Adidas. Sogedim became involved with Adidas in 1993 when it bought 95 per cent of the company from Bernhard Taple, the French businessman and former politician. This stake was later reduced to 26 per cent when Adidas

went public. Adidas said sales rose 45.7 per cent to DM2.1bn in the third quarter, thanks to success in the key US market. North American sales rose 69 per cent to DM531m, while sales in Europe increased 34 per cent to DM1.37bn.

"This was all very posltive," said one industry analyst at a bank in Frankfurt. Mr Louis-Dreyfus, former

tising group, is credited with the impressive turnround after losses in 1993.

Since be took over, the company has adopted a more aggressive marketing strategy, revamped its product range and emphasised technological innovation.

It went public with a DM2.1bn share issue in 1995. Mr Louis-Dreyfus and Mr Tourres yesterday told an analyst meeting that they would remain with Adidas at least until 2000.

In September, Adidss announced it planned to take over Salomon - which makes ski and golf equipment - in a FFrs.05bn (\$1.89bn) deal which would take Adidas ahead of Reebok to become the world's sec ond biggest sports goods

Adidas shares closed at DM249, up 20 pfennigs. Adidas said sales grew by more than 80 per cent in the UK and in Spain, while in

the Asia-Pacific region sales

### **Swedish** mining group to expand

By Tim Burt in Stockholm

Trelleborg, the Swedish mining, metals and rubber group, yesterday announced plans to expand its industrial and distribution operations following the partial demerger of its Boliden mining and metals arm earlier this year.

The company said it was seeking acquisitions mainly in the emerging markets of sonth-east Asla. eastern Europe and Latin America.

Trelleborg's ability to make sizeable bolt-on acquisitions has been greatly enhanced by the SKrl.46bn (\$193m) capital gain on the sale of 55 per cent of Boll-

In the first nine months of this year, proceeds from the sale of Bollden shares helped to lift the group's liqnid assets from SKr863m to

Kjell Nilsson, chief executive, said he expected most of the acquisition to take place in the industrial division, which contributed operating profits of SKr334m in the nine months to September 30, against

SKr227m a year earlier. He emphasised, however, that the acquisition strategy did not signal any imminent plans by Trelleborg to dis-pose of its remaining Boliden shares.

Speaking after publication of the company's third-quarter profits, Mr Nilsson said the Boliden stake was unifkely to be sold within the next three years.

"We have a responsibility towards the management of Boliden to remain principal shareholder during the period of the company's

expansion," he said. Exceptional gains on the sale of Boliden shares pushed pre-tax profits up from SKr837m to SKr2.3hr in the first nine months of

Underlying operating profits rose from SKr705m to SKr1.04bn as contributions from newly acquired subsidiaries lifted sales to SKr15.9bn from SKr15.3bn. Earnings per share rose from SKr5.05 to SKr15.70 to

the nine months to September 30. Mr Nilsson predicted that pre-exceptional profits for the full year would reach

SKr2.5bn-SKr2.6bn. He warned, however, that Boliden had been adversely

affected by price volatility in the third quarter. Trelleborg's most commonly traded B sbares rose

SKr4 to SKr107.50.

### VW poised to lift Spanish output

By Halg Simonian, Motor Industry

Volkswagen, Europe's biggest carmaker, may be poised to authorise signifioutput at its plant at Pam-

cant new spending to boost would probably not be ready until 2000. plona, Spain, as part of its long-term plans to expand and simplify production the range of platforms (basic capacity. The company yesterday

reports that it would invest drive to cut costs. about DM500m (\$288m) on the Pamplona factory to such as the Golf, the Audi raise output of the best- A3 and the Skoda Octavia, selling Polo hatchback.

sory board holds its annual meeting next week to examine the group's medium-term spending plans. A central part of any decision to boost Polo output in Spain would be a new paint shop, which

Ferdinand Piech, chairman, has been simplifying engineering structures) on which the VW group's modrefused to comment on els are built in an aggressive

New VW group models, However, VW's supervi- differing external styling. in the Spanish factory would daily.

A second strand of Mr release space at Wolfsburg Piech's "platform strategy" has been to reduce costs by concentrating production of models - the new Golf and models sharing the same platforms at a smaller num-

The new Arosa, sold by iary is built at VW's main plant at Wolfsburg in Ger-Toledo, which is based on Belgian plant which also builds the Golf.

Concentrating production

and allow the German factory to concentrate on two the Arosa.

Output of both is expected to rise sharply as further variants come on stream. VW's Spanish Seat subsid- The Golf is expected to spawn a saloon version, called the Vento, an estate many: next year's Seat car and possibly a sporty coupe. Meanwhile, the Arosa the platform of the new Golf, is expected to be followed will be manufactured at a next year by a slightly altered VW-badged version.

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The Pampions plant builds about 1.000 Polos a day. of the Polo, currently made Expansion would probably share platforms in spite of at Wolfsburg and Pamplona, lift output to 1,800 units

ALEXANDER FORBI

PRICE FORBES

CRM International Group

ROBERT GORDON

MSELE HOSKEN

FORBES

James Colored

FORMS GROUP LIMITED Reg No 58/01974/06

Interim results

for the six months ended 30 September 1997

+ Outstanding 56% growth in employee

+ Revenue up 49% to R457 million

+ Headline earnings increase 27% to

Interim dividend increases to 8,9 cents

The Farbes Group is a leading independent professional services

organisation headquartered in South Africa which runks amongst the top 10 comparable organisations in the world in revenue terms. Its activities, which are conducted directly and

indirectly through its subsidiaries and associated companies.

ouclude risk engineering and risk finance consulting, employee

benefits and actuarial consulting, health cure administration

and consulting, insurance, reinsurance and wholesale broking,

P.I. Heinamann (Deput) chairman and group, his (recuta) ). D.J. Rengman, T.J. T. Bohlmann, S.v.R. Casseth, J.F. (Jarlo) Q.J. Heanes, M.R. Hotmeyr, G.W. Kerngan, J. D. Lewis,

RESULTS OF ELECTION TO RECEIVE A FINAL DIVIDEND INSTEAD OF THE

CAPITALISATION AWARD AND AN ELECTION TO SUBSCRIBE FOR NEW SHARES

The right of election to receive a final dividend instead of an award of capitalisation shares ("the Capitalisation Award") and the right of election by those shareholders electing the dividend to apply the dividend in subscribing for new [CI shares ("the Subscription") made to ordinary shareholders registered at the close of business on Friday, 26 September 1997 ("the

Record Date"), closed at 16h00 on Friday, 31 October 1997. The weighted average traded price of JCI ordinary shares on the Johannesburg Stock Exchange on Thursday, 30 October 1997 was

R19,60. Accordingly, the award of capitalisation shares and the subscription for new shares was

Elections to receive the final dividend of 45 cents per share in respect of the year ended 30 June 1997 instead of the Capitalisation Award were received in respect of 108 963 294 shares

Accordingly, a final diridend of 15 cents per share was declared on 4 November 1997 or

108 963 294 ordinary shares in respect of the year ended 30 June 1997. Elections to apply this

dividend in subscribing for new shares in JCI were received in respect of 79 501 of these shares.

An amount of R35 775 was therefore applied in terms of the Subscription, Accordingly,

I 153 639 new fully paid JCI ordinary shares of 0,000671579 cents each have been alloned in

terms of the Capitalisation Award and the Subscription and the issued share capital of JCI has

The listing of 1 153 639 new ordinary shares in JCI will commence on the Johannesburg Stock

Cheques in respect of the final dividend and shares sold for the benefit of shareholders, as well

as share certificates, will be posted to shareholders on or about Wednesday, 5 November 1997.

September 1997

Exchange from the commencement of business on Wednesday, 5 November 1997,

determined as a ratio of 2,55102 new shares for each 100 shares held on the Record Date.

MT Massela, S.J. Naude, J.Penn-Davis\*, G.G.H. Tookl, D.C. Woodward\* [Plead of international operations)

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DRECTORS: P.J.) van der Walt (Chairman).

ICI Limited

Recharation number 66 (8888 -061 (Incorporated in the Republic of South Africa (JCI" or "the Company")

been increased to 155 267 774 ordinary shares.

+ Attributable income up 55% to

a share from 7 cents a share + Outlook - real growth in earnings

R66 million

28,9 cents a share

+ Acquisition of Nelson Hurst

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#### FINANCIAL TIMES WEDNESDAY NOVEMBER 5 1997

Japan government asks banks for extra funding for customers of failed broker

COMPANIES AND FINANCE: ASIA-PACIFIC

## Aid increased for Sanyo clients

By Bethan Hutton in Tokyo

Japanese financial institutions vesterday railied round with funds to compensate customers of Sanyo Securities, the failed broker, but there was no sign of an overall rescue bid for the company.

Sanyo filed for bankruptcy on (\$3bn). Eight affiliated companies with liabilities of Y419.2bn also filed for protection

Sanyo and its affiliates is not yet clear, but the finance ministry estimated the parent company's net liabilities at about Y70bn.

ter, said yesterday that no public each. Sanyo's three main banks,

money would be used to bail out Bank of Tokyo-Mitsubishi, Daiwa Sanyo. The use of public funds to bail out housing loan companies last year caused an outcry by taxpayers.

However, the ministry said it had asked banks and brokers for extra contributions to an industry-wide compensation fund covering client assets held by securities companies. Monday with debts of Y373.6bn The fund now has assets of only about Y35bn. Normally, the compensation limit for each company is set at Y2bn, but this will be increased to The total value of assets held by provide full cover for Sanyo custom-

Nomura Securities, Sanyo's main shareholder, bas been asked for Y10bn, while the three other largest Hiroshi Mitsuzuka, finance minis- brokers have been asked for Y3.3bn

Bank and Nippon Credit Bank, bave been asked for about Y15bn in total. All the banks and brokers seem likely to accept the request.

Daiwa Bank said it would provide funds, but made clear it was not willing to take part in a full-scale bailout of the company. "We can only offer funds for the protection of investors," Takashi Kaiho, Daiwa Bank president, said yesterday.

Nippon Credit Bank, one of the main creditors, is itself in financial difficulties and being restructured. NCB said yesterday it had a total of Y42.8bn of loans outstanding to Sanyo Securities and affiliated companies, only Y4.1bn of which was to

But NCB said much of the debt was covered by collateral, and the company bad already set aside reserves to cover much of the rest. "Additional losses would probably be very small or manageable amounts," NCB said.

The market turnoil which the government had apparently feared after Sanyo's collapse failed to mate rialise yesterday: traders were preoccupied with New York and Hong Kong, and the Nikkei ended the day

However, share prices slumped for almost all listed securities companies, except for three of the big four. The yen also weakened, partly on concerns about financial sector

### No last-ditch romance for ailing broker

Arranged marriages appear to be going out of favour - in business as well

as in private life. Until recently, the obvious failure of a company such as Sanyo Securities would have been for the finance ministry to act as go-between and match it with a suitable, more prosperous partner.

The system was theoretically voluntary, but in practice those whom the finance ministry wished to join together rarely dared to object. The stronger partners were motivated by the knowencountered difficulties, the same "convoy" system would come to their rescue.

been np to its old matchweeks, trying to find a suitor for the sinking broker. But in the nawly competitive financial climate ahead of

The final straw for Sanyo

apanese marriage cus- over Y20bn (\$166m) of subortoms are changing, dinated loans, despite finance ministry pressure to do so. Other big institutions with links to Sanyo, such as Bank of Tokyo-Mitsubishi and Nomura Securities, also solution to the threatened snubbed ministry attempts to arrange a rescue package

> So Sanyo has ended up in court filing for bankruptcy, rather than signing the registry book. Does this now signal the end for the convoy system, and the ministry's powerful role as matchmaker and enforcer?

or takeover.

There are certain special circumstances which meant that Sanvo was more likely ledge that if they ever to be left on the shelf than other troubled financial institutions. First, it did not have just one main bank, as The ministry has in fact is normal in Japan, but several. This meant the amount making tricks in recent of responsibility each felt diminished accordingly.

ally was Nomura Securities, Japan's largest brokar, Big Bang liberalisation, all which bolds nearly 20 per ing on unknown quantities the prospective spouses have cent of Sanyo's shares either of bad debt), and the record responded with a polite but directly or through a real already been called upon to was the refusal of nine bail out smaller brokers, but for Sanyo may be that an had with Nomura.

listing process, given the

prices among the China com-

panies, has prompted

delay their listings.

The sharp drop on the

cooler market sentiment.



Customers read poster at Sanyo's Tokyo branch explaining move to declare bankruptcy Poulon

that it has little to gain and yet another debt-laden com-

owever, as Paul Hea-

There has been speculation that a foreign investment bank or broker might acquire Sanyo for its retail network or seat on the stock

ton, financial analyst at Deutsche Morgan Grenfell in Tokyo. Secondly, Sanyo's main points out, there are cheaper ways of acquiring a seat on the exchange (without takestate affiliate. Nomura has not make them an attractive proposition. The best bope

Tokyo-Mitsubishi could take about the Japanese financial much to lose by taking on it over and sell off its various parts. The next worry is whether

Sanyo's collapse is just the first of a wave of broker bankruptcies. Sanyo was known to be in

more immediate danger than any of the other second-tier brokers. Its capital adequacy ratio, which fell to 160 per cent earlier this year, clearly put it in the danger zone analysts consider anything below 250 per cent to be unhealthy.

But there are at least six other medium-sized brokers below the line. Some of of Sanvo's retail staff does them, however, have stronger relationships with their key sharebolders than Sanyo

system - that someone will always come to the rescue may no longer bold true. But s wider characteristic of Japanese business life - that long-term relationships are all-important - may still be

sufficiently strong to save some of the other struggling brokers. Some may thus manage to avoid Sanvo's fate, but it is becoming more certain that some will not. "Winners and

losers are increasingly being decided," said Elizabeth Daniels, analyst at Morgan Stanley in Tokyo. For the moment, it seems Japan's financial institutions are readier to accept that than is the ministry of finance.

### Chinese power group eyes HK listing next year

in Hong Kong

China International Power Hong Kong stock market. Holdings, a unit of China's prefaced by falling share Ministry of Power, is seeking a listing in Hong Kong next year, according to bankers in

the territory. The company is in the early stages of restructuring. and bankers say its initial forecast of proceeds of \$750m-\$1bn are likely to be cut to about \$600m-\$800m. Mandates to lead-managers bave yet to be awarded.

China International Power is the Hong Kong arm of cerns about foraign mainland-based China Power investment Corp, and the ministry's window company for raising funds overseas As a Hong Kong company, it International Power Develwill not issue H-shares - the name given to the Hong Kong-traded stock of China state-owned enterprises but will join the ranks of the "red chips", or mainland-

backed companies. Because of the work involved in the restructuring, the issue is unlikely to come to market before the second half of 1998, bankers say. There is also little International - that had incentive to speed up the listed there.

### New Core files for protection

second-largest retail group, yesterday filed for bankruptey protection for half of its 18 affiliates in the latest collapse among the nation's

Yanzhou Coal Mining and China National Aviation, to Howevar, other China power companies are understood to be advancing plans to secure Hong Kong list ings. The sector was hit by a

wave of negative sentiment in 1994, largely owing to conexchange guarantees and rates of return that foreigners regarded as too low. One victim was Shandons opment (SIPD), which scrapped its Y3bn (\$362m) is aiming to regain profitability in six years. New flotation three years ago but is now understood to be

reviving its plans. The listing, scheduled for Wall Street, was cancelled in the wake of poor performances by other China power companies - Shandong Huaneng Power Development and Huaneng Power

By John Burton in Seoul

New Core, Sonth Korea's top 30 conglomerates.

It was unable to service debts of Won 1,620hn would-be issuers, including (\$1.67bn) amassed during a rapid expansion of tis department and discount store network since 1994 in its bid to become the world's 20th largest retailer by 2000. New Core said it would

negotiate with creditors to reschedule debt payments as it seeks to raise Won735bn through property sales, including 19 of its 39 retail ontlets. It will also slim down to six subsidiaries from 18. It estimated tha reorganisation would cut costs by Won173.5bn. The company

Core reported net profits of Won19.9bn in 1996. But creditors, led hy Korea First Bank, have yet to decide whether to endorse New Core's court protection plan while allowing it to retain current manag Creditors may instead decide to sell New Core to another retail group.

## close HK arm

NatWest to

By Louise Lucas

NatWest Markets, part of the UK's National Westminster group, is to close down its global debt markets division in Hong Rong early next year and concentrate its debt functions in Singapore, Tokyo and London.

Tha move will result in about 55 redundancies. The remaining 50 employees within the division will be located outside Hong Kong.

The banking group said the restructuring was part of a strategy of focusing on areas where it had a competitive advantage, and of cutting costs and improving productivity.

It follows a period of npheaval for the group's Asian operations. A year ago National Westminster Bank bought ont Wheelock, the Hong Kong conglomerate, from its Hong Kong investment-banking joint venture. The joint venture was subsumed into the global equi-

ties division of NatWest Markets, the UK bank's investment banking arm. As the realignment was announced, Wheelock Nat-West lost two of its key personnel: David Miller, chief executive, and David Clapbam, head of research. In

out a review of NatWest Markets.

There were also departures from the group's fund management arm after Nat West acquired Gartmore, the UK fund management com pany, last November.

Departures have continued at the investment bank. Last month saw the resignation of Trevor Bush, managing director (greater China) of NatWest Markets.

The latest restructuring affects the debt unit respon sible for fixed-income sales and for trading, derivatives structured finance and

The bulk of this will now be managed from Tokyo although syndication and project and structured financing for Asia will be managed in London, where it

could be handled more costeffectively. The bank said Tokyo was the logical choice because it is one of NatWest Market's bigger offices in the region. "The global debt markets division had to look at its global function and ways to rationalise and get the best return on assets," she said.

NatWest Markets employs 560 staff in Asia, including 220 in the equities division. Of these 250 are based in August the company carried Hong Kong.

## 5 November 1997



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## Weak commodity prices hit Grasim

By Krishna Guha in Bombay

Weak commodity prices depressed profits at Grasim Industries, the conglomerate at the core of India's Aditya Birla group.

Pre-tax profits fell 17 per cent to Rs1.47bn (\$40m) in the first half.

Grasim sald the results reflected "a marked slowdown in the economy and continued slackness in the market for commodity products in general".

Sales rose 19 per cent to Rs17.66bn in the six months to September 30 as Grasim increased output of its com-

However, operating profits supply at its aponge iron rose only 2 per cent, beld plant curtailed ontput,

higher costs. Grasim blamed the rising costs on "increases in tha cost of govarnment-controlled imput".

Lower income from investments and higher depreciation charges pushed overall profits lower.

Grasim has also suffered from a string of problems with power and water supplies to its plants.

The company said it had increased production of viscose staple fibre by 19 per cent to 83,000 tonnes and output of caustic soda by 17 per cent to 62,000 tonnes. But problems with gas

back by poor prices and which fell 9 per cent to 346,000 tonnes. Grasim said the "expected

take-off" in India's infrastructure and bousing spending "should result in greater demand for cement and steel". Grasim is India's third-biggest cement pro-

However, it said its sponge iron business would re-doumarkets" as domestic demand was still "sluggish". The company said domes-

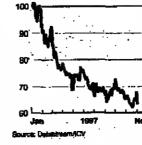
tic demand for viscose fibre to blend with polyester increase". It also intends to viscose fibre businesses. dayelop the market for higher price speciality fibres ing, which could be neces-

Grasim, once a valued blue-chip stock, bopes moves help win back confidence of the stock market, where it has been out of favour for the past 18 months.

jinxed," said one analyst. "It has had environmental protests in Kerala, water shortages in Madhya Pradesh, ble its "thrust on axport and flooding in another Analysts said the results

should mark "the end of the bad news", but pointed out there were few synergies would "continuously between Grasim cement and Fundamental restructur-

Grasim Industries Share price relative to the Bombay Sansitive index



tunes, is unlikely because of complex cross-shareholdings sary to restore Grasim's for-

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#### COMPANIES AND FINANCE: UK

Interim results at lower end of expectations, as strong pound and competition take their toll-

## M&S unveils three-year expansion plan

By Robert Wright

Marks and Spencer, the clothing, food and houseware retailer, yesterday announced details of a threeyear £2.1bn (\$3.48bn) expansion programme partly designed to increase sharply the share of its revenues generated from oversees

expanding in Asia, the US and continental Europe, said it was taking advantage of the strength of sterling to huy sites in Germany, where chairman, said: "There are profit fell 17.2 per cent to lier this year.

ing director, said thet by take us five years to get early in the next century M&S wanted to raise the proportion of business done outside the UK from 17 per cent to as much as 25 per cent. Overall, the group will increase its selling space in

continental Europe by 1m sq ft - or 80 per cent. Nearly a third of the expansion will be in Germany Sir Richard Greeobury.

it opened its first store ear- 20 to 25 sites in Germany £22.2m. alone we would like to have Keith Oates, joint manag- tomorrow. My guess is it will

> Details of the expansion programme came as M&S announced interim pre-tax profits of £452.3m, at the lower end of expectations. Profits in the 26 weeks to September 27 were particularly hit by the strong

over rose 1.8 per cent to

The company said that profits were reduced £700,000

ffects and £6.5m by the cost to international subsidiaries of importing goods from the

There were also problems for M&S's food retailing operations, where turnover rose only 2.3 per cent - an effect some analysts attripound. International turn- buted to supermarkets' movement into the higher-2601.8m, while operating margin food retailing areas

where M&S has made many of its sales in the past. The group's financial services division was also hit by increased competition. with turnover increasing 28.7 per cent to £127.8m (£99.3m), while operating

profits rose only 13 per cent

to £37.5m (£33.2m). Robert Colvill, financial services director, said the reduction in margin was "probably quite a natural situation at this stage".

He said: "This is not the time markedly to increase

By Andrew Taylor,

its French rival.

trols 56.1 per cent.

Construction Correspondent

Helga Bruhn-Braas, has

resigned from the board of

Redland, the UK building

materials group which is

fighting a £1.69bn (\$2.8bn)

takeover bid from Lafarge,

Ms Bruhn-Braas repre-

sents e 31.5 per cent Braas

family interest in RBB, the

world's biggest roof tile com-

pany, of which Redland con-

Fate of RBB

forces Redland

boardroom exit

tile group.

increase our market share." Analysts yesterday shaved their full-year pre-tax profit forecasts for M&S by some £65m to about £1.16bn. Forecasts for the following year were also being shaved by

about £60m to £1.26bn. The bulk of spending on expansion, come £803m, is now likely to be required in this financial year. The dividend rose by more than earnings to 3.6p (3.3p).

Redland stake to prevent

Lafarge gaining a controlling interest in the German-based

RBB, valued by brokers at

about £800m, has previously

been regarded as a poison

pill, owing to German laws

which protect minority shareholders and restrict

RBB's operating profits

last year slipped from

£255.6m to £197.6m as the

German construction market

Rudolph Agnew, Redland'e

chairman, said in the compa-

ny's defence document last

week that he was consider-

ing a range of options.

incloding a partial or com-

expressed interest in huving

various parts of Redland'e

international tile, aggregates

and concrete operations

although a rival bidder to

Lafarge for the entire group

Minorco. Hanson, Pioneer

and RMC are among those reported to be interested in

acquiring Redland's other

Redland's shares dipped

Aboot 10 groups have

went into decline.

plete break-up.

has yet to emerge.

dividends paid to Redland.

Lex. Page 14

### NEWS DIGEST

### Cookson sale to Great Lakes

Cookson Group took the latest step in streamlining its operations yesterday with the sale of its plastics additives business, Anzon, for £54m (\$90m). Anzon makes fire-retardant additives for the plastics industry and was sold to Great Lakes Chemical Corporation of the US.

Analysts now expect the company to move on acquisitions. One said "the tidying up is basically done" although a further disposal in its plastics division, Plantpak, is widely expected later this year. They reckon it could spend some £500m on acquisitions, if it were to reduce its interest cover from nine to five times. Anzoo made operating profits of £6.3m on sales of £50m last year. Net assets being sold amount to £22m.

fmap takes

look at 11.6

### US competition hits Willis

A strong pound and the effects of fierce competition in the US drove nine-month profits at insurance broker Willis Corroon sharply lower, dampening hopes of an increased dividend this year. John Reeve, chairman, defended its determination to stay independent in the face of industry consolidation, saying it would beoefit in the fourth quarter from internal restructuring.

Pre-tax profits fell 23 per cent to £88.1m (\$113m) as revenue from brokerage and fees slumped 9 per cent to £484.4m. Premium rates for commercial insurance to the US, where Willis derives nearly half its income, were falling faster than at any other time in the past 10 years following a spate of mergers and acquisitions. With much of Willis's husiness transacted in dollars, the recent strength in sterling depressed profits by £8.5m.

The group is trying to improve efficiency in the US and said it might sell some North American businesses if it could not lift their performance.

### Tougher targets for BP

British Petroleum will announce new medium-term financial performance targets next April because it is making such rapid progress in meeting its current goals for the end of the decade.

John Browne, chief executive, said BP was more than two-thirds of the way towards meeting the current target of e cumulative \$1.5bn in performance improvements by 2000. That goal should be reached by early oext year, he said. About 80 per cent of the improvement came from higher volumes, with lower costs accounting for the remainder

BP also announced third-quarter net profits of £691m (\$1.15bn) before exceptionals. That was at the upper range of analysts' forecasts,

### Betterware expansion plans

Betterware yesterday detailed an expansion strategy into at least eight emerging markets, as the home shopping group suffered lacklustre sales in the UK.

The group said it would invest \$8m in expanded joint ventures with Avon Products, the door-to-door cosmetics group. Peter Hartley, managing director, said sales from the joint ventures with Avon could reach "several hundred million dollars" in 10 years.

Betterware is launching in five eastern European countries beginning with Hungary, and three Asian countries including Japan. The expansion follows joint ventures with Avon in Latin America.

### Big fund managers score badly

estment Correspondent

Two of the UK'e largest pension fund managers -Gartmore and Mercury Asset Managemeot - achieved returns well below the average in the year to date, eccording to letest perfor-

One of MAM's mixed-withproperty funds, which manages eome £676m (\$1.12bo) for a variety of clients, achieved the worst returns of all 71 in this sector as meesured by Combined Actuarial Performance Services. The industry'e largest pooled vehicle - MAM'e from stock selection daci-£4.65ho fund - came 68th sions in the period according

tember 30. The group reorganised its

management of these funds over the summer. Gartmore, which has suffered several high-profile client losses from its core funds in the past year, has underperformed for longer

than MAM, which performed well over the past two years. Gartmore's smaller medium-term balanced fund came 70th out of 71 in the year to date but bottom of the fiveyear performance records with a 14.1 per cent return.

agers had performed better. Fund managers have only slightly moved out of equi-ties and into bonds in the third quarter, in spite of the government'e July abolition of the dividend tax credit. The average fund manager

per cent et the end of June. On average, UK equity returns helped pooled pension funds achieve their best performance for almost four vears in the last quarter as These funds have suffered they fled from south-east

Asia and Japan. The average fund achieved

with a return of 14.5 per cent to industry consultants. a return of 8.1 per cent in in the nine months to Sep- Other large investment manher 30, their best perforof 1993.

> This performance of managers holding assets of some 280bn henefited from a 13.1 per cent return from UK equities. The average fund increased its holding in UK held 18 per cent in bonds and cash by the end of Sepshares from 56 I per cent to 58.8 in the quarter. Managers tember, compared with 18.7 bought more US shares. which returned 11.2 per cent. The average US equity weighting increased from 3.3 per cent to 4.3 per cent in the quarter. Holdings in Pacific Basin shares, excluding Japan, fell from S.1 to

Redland last week eig-nalled that all of its businesses were separately np for sale, including its RBB stake, in an attempt to gain more value for shareholders than Lafarge'e 320p-a-share hostile offer. Ms Bruhn-Braas has resigned to evoid a conflict of interest in negotiations

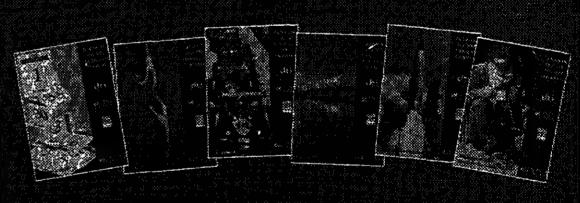
between the Braas family and the Redland board over the future of the British group's majority stake in RBB. One option is for the family, which is being advised by Lehman Brothers, to try to raise the cash to buy the Redland holding.

Another option might be 4½p to 329½p yesterday, to find a "friendly" Euro- 9½p ahead of the Lafarge pean investor to buy the offer.

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> FINANCIAL TIMES No FT, no comment.

0.424 (0.346 ) 3,77 (3.23 ) 0.27 (0.161 ) 7.13 (6.52 ) Berlmore Venture \_\_\_\_ 6 mins to Aug 31 100.7 Honderson Far East.\_\_\_\_\_ Yr to Aug 31° 161 Renalessance US \_\_\_\_\_ 6 mins to Sept 30 116.1 0.424 3.77 (180.4 (0.77 Secs Trust Scotland ... 6 mins to Sept 30 134.8 Earnings shown besic. Dividends shown net. Figures in brackets are for corresponding period, \$\frac{4}{2}\text{After exceptional charge. \$\psi\text{After exceptional charge.} \$\psi\text{After exceptional charge.}\$\psi\text{Comparatives pro forms.}\$\psi\text{Ecomparatives pro forms.

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#### Qualification of Contractors Rolling Stock – Electrical Multiple Units

**CONTRACTS & TENDERS** 

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The Kowloon-Canton Railway Corporation ("KCRC") proposes to appoint, through pre-qualification and tendering, a contractor for Contract SP-1900, Rolling Stock - Electrical Multiple Units.

The Contract is for the design, supply, testing and putting into service of 250 EMU cars, for use on both the East Rail and West Rail systems. Delivery of the East Rail cars is expected to commence in June 2000 and the delivery of West Rail cars in May 2001.

More detailed descriptions of the work activities will be included in the Pre-Qualification Questionnaire.

East Rail is en existing passenger system operating between Kowloon and Lo Wu. It is a double-tracked, 25kV electrified railway system with a route length of 34 km. The system has 13 stations and one maintenance depot.

West Rail Phase 1 Passenger System will be a 30.5 km, double-tracked, electrified railway system, with a maintenance depot and up to 9 stations.

Requests for a Pre-qualification Questionnaire should be made on compeny letterhead by facsimile to the Kowloon-Canton Railway Corporetion, Attention: Procurement Manager et (852) 2601-2671 in the English language. Requests for Questionnaires must be received by the Corporation by 6:00pm on 1 December 1997 Hong Kong Time.

KCRC will, at its sole discretion, evaluate responses to the Pre-qualification Questionnaires. Those organisations which KCRC determines to be suitably qualified will be invited to tender. The tender documents will require the provision of a performance bond/bank guarantee.

No communications in response to this advertisement will be accepted by KCRC except by facsimile at the above noted facsimile number.

This Procurement activity is covered by the World Trade Organisation Government Procurement

Interested firms are advised that the ultimate placement of orders for East Rail system EMU cars is subject to the epproval of the Managing Board of KCRC.

Interested firms are advised that the construction of Phase I of West Rail will be subject to the approval of the Hong Kong Special Administrative Region Government around September 1998.



Additional information is also available on the Internet at the following address:

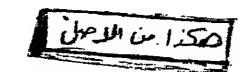
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### COMPANIES AND FINANCE: UK

## Packing powder into magazine titles

Christopher Price looks at the strategy of Kevin Hand, new chief executive of Emap

issue. The decision was then newly-appointed head ket." of Emap's consumer maga-

zine business. His knack of spotting the ners in the fickle world of publishing paved the way for other senior roles at Emap culminating in his appointmeot, confirmed yesterday, as the media group's next chief executive

who is moving to the post of new ones, is a strategy when Sir John Hoskyns

retires next July. Mr Hand, 46, joined the hoard eight years ago and ing director of Emap's French operations. The business was greatly expanded (\$241m) acquisition of three of France's higgest consumer magazines, including Télé Star, a listings title which

ew people will remem- The French business is ber Woman on now the second dargest con-Wheels, the early tributor to group profits, and 1980s magazine for a snp- is likely to herald further posed new breed of female expansion ont of the UK. We will certainly be looking The title, which carried a to do more things in interna-

free combined nail file and tional publishing," says Mr spark-plug remover on the Hand. "France contains front cover, folded after one soma very good opportunities to replicate our success taken by Kevin Hand, the in the UK magazine mar-

Until now, the company has concentrated on revamp ing its French stahla, hut Mr losers and backing the win- Hand says the next 18 months will see the group

launching new titles. Germany, where Emap currently has only a small presence, ts also in his

Breathing oew life into He replaces Robin Miller, existing titles, and launching which has served the group well in the UK. When Mr Hand took over the magazine business in 1983, it had 20 titles. Six years later, Women on Wheels notwithstanding, the group published 90 magazines, including big-selling titles such as FHM, Elle and Smash Hits.

The market will remain core to Emap, says Mr Hand. However, he says the group ing competitiveness. "Titles



Kevin Hand has a knack for spotting losers and backing winners in publishing

Emap's strength in launch-

ing new titles would also make tha company cautious

are having to change faster than ever because reader habits are changing. We have to be prepared to

respond quickly." He says Emap could be interested in acquiring IPC, tha magazina husiness which was put up for sale last week by Reed Elsevier, although the competition between so many of the two companies' magazines would detract from the current £750m-£1hn price tag being mooted hy analysts.

over the price it was paying in markets where we are already strong". Emap could certainly afford to huy IPC. In the year to March 31, net deht fell from £350m to £89m, and analysts are forecasting a modest cash mountain hy 1999. Other areas ear-marked

husiness magazines and Mr Hand's appointment as

for continued investment are

chief executive and Mr Miller's move to a part-time posiat Emap. Mr Miller joined the company, which started life as a small east Midlands newspaper group, as a

trainee reporter in 1965. He rose to become chief executive in 1985, recruiting David Arculus as managing director on the way. Together, the two oversaw the growth of Emap's market capitalisation from

February this year.

cess, sharebolders are likely to be relieved that the issue of succession has been resolved. For six months at the end of last year, the company was polarised by a rebellion by two non-executive directors who objected to new articles of associa-

The revolt ended last December with the highly unusual removal of the two rehels at an extraordinary shareholders' meeting, but not before the issue of succession had been hrought into the public arena.

In particular, the question of where Mr Miller and Mr Arculus would fit ioto a revamped hoard structure attracted much speculation from analysts and invest-

It was answered in Fehruary wheo Mr Arculus left to join United News & Media as chief operating officer.

Mr Hand admits to having a hard act to follow, but says the strengths of the group will ensure lts continuing development: "Emap bas achieved its success hy having a culture which has allowed young creative talent to thrive. That will con-

### LEX COMMENT Cookson

lt would be nice if Cookson Group's sale of a commodity plastics business Share price relative to the marked the end of the FTSE All-Share index pruning. After reforming top management and selling non-core businesses. the company would then look lean, fit and ready to start expanding again. Unfortunately, it needs to do more than this to slough off its conglomerate discount. Of course, the group can always argue that its current five legs are really just three: electronics, ceramics and eogi-

neered products. But such presentational juggling would not be worth the annual report it was printed on. Only one of the three legs. electronics, would make a coherent unit. A hig chunk of the ceramics division is a poorly performing 50:50 joint venture with Johnsoo Matthey, which really ought to be sold or bought out. And although "engineered products" could plausibly encompass parts of the plastics business the result would be a jumble that would benefit from a spring clean.

The pruning also needs to go deeper than the business portfolio. Cookson's emphasis has been on sales growth. and fat is bound to have huilt up. The management is still better at explaining how future projects will have to deliver better returns than at convincingly proposing to sweat the assets they already have. This may be politic with Richard Oster, the oian behind the expansion of the early 1990s, still in the chair. But if the tone is not rather different behind the scenes, that re-rating will not

### Emap takes a look at IPC

**By Christopher Price** 

first potential hidder to express interest in IPC, the UK magazine business put np for sale last week by Reed Elsevier.

yesterday as Emap's new chief executive, said the issue was under consideration - though he expressed reservations about the price tag mooted by some analysts of up to £1bn (\$1.66bb).

Other companies likely to be interested in the UK's biggest consumer magazine

Lorna Tilbian, media analyst at Panmure Gordon, suggested Emap might team up with another bidder possibly a continental European group - in an attempt Kevin Hand, confirmed to avoid an inquiry hy competition authorities. Emap has about 13 per cent of the and IPC about 20 per cent.

A joint approach would also allow Emap to divide up the IPC stable and sell on some titles, which include TV Times and Woman.

: Reed said yesterday it was group include Bertelsmann, proceeding with the auction GNJ and Bauer of Germany, process for IPC.



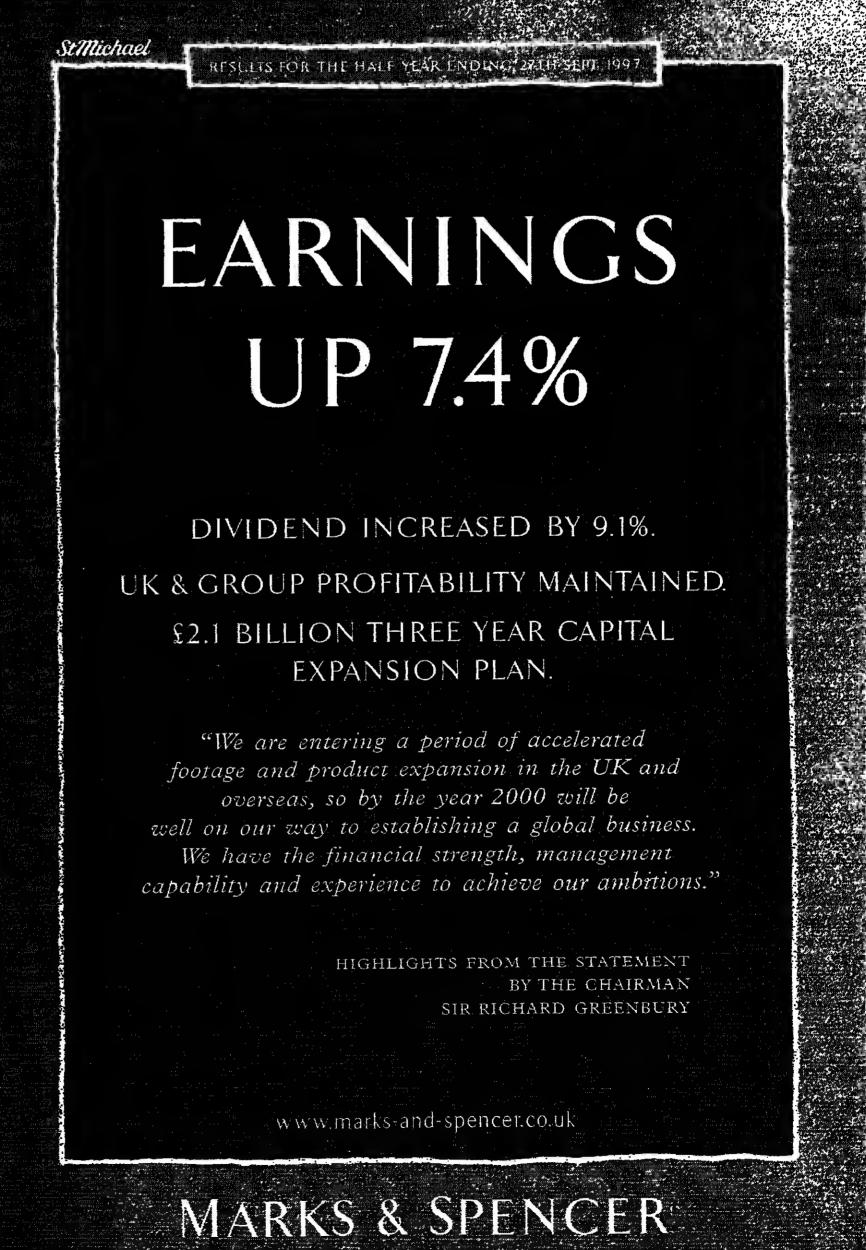
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By Nikki Talt in Chicago

markats, with trading vol-

wide lead, which was tempo-

rarily seized in September by

the London International

The CBOT yesterday said

in October – up 53 per cent

on the same month last year

and almost 49 per cent

Financial derivatives saw

the sharpest increases. Trad-

ing in US Treasury bond

futures was up 84.1 per cent

on October 1996, with 12.5m

The CBOT's new Dow

Jones futures contracts.

however, put in a more mod-

est performance, in spite of

the huge marketing effort

just over 300,000 contracts

were traded, for an average

daily volume of 15,970 con-

Earlier this week the Chi-

cago Mercantile Exchange,

the second largest of the Chi-

cago derivatives exchanges,

also announced a sharp rise

in trading volumes for Octo-

ber, at 22.9m contracts. This

figure beat the previous

record of 20.2m contracts set

in May 1994, and represented

an increase of 55 per cent on

The surge in activity also

levels of a year ago.

tracts

contracts changing hands.

higher than September.

exchanges lifting records.

umes on the leading

and Samer Iskandar

### INTERNATIONAL CAPITAL MARKETS

## Europe ends with modest gains

GOVERNMENT BONDS By Vincent Boland and James Wilson in London

and John Labate

in New York

European bond markets recovered some of Monday's losses in quiet trading yesterday, taking their cue from strength in German bunds. A weaker start on Well modest, however, as investors kept a wary eye on vola-

tile equity markets.

GERMAN EUNDS outperformed all other main Eurospreads at the 10-year end against most markets widening from overnight levels. The December bund future settled in London at 102.62, up 0.17, at the high end of a meeting of the Bank of trading range of just 0.22. England's monetary policy Volume on Liffe was moder-

ate at 95.000 contracts. Comments by Otmar Issing, chiel economist at the at NatWest Markets, said: Bundesbank, to the effect that the central bank was really take off until you get from the weekend's agree- year bond was down it at morning trading.

prepared to be pre-emptive softness in economic data ment on pensions reform. in fighting inflatioo, was and people start pricing in seen as positive for bond rate cuts. If we start pricing markets in the short term. in lower base rates then the His comments were inter- curve can continue to be preted as meaning further pretty inverted and the mar-German interest rate rises could not be ruled out but of Europe."

were not imminent. "It is a message the marand take very seriously. It is also something they are Street kept gains relatively comfortable with - most are convinced the Bundesbank is prepared to be pre-emptive on inflation," said David Brickman, international economist at PaineWebber.

UK GILTS had a quiet day with trading thin in a narrow range. The December contract ended up 1 at 11814, with 72,000 contracts traded. Most attention is on the committee, which starts

Kit Juckes, bond strategist "The gilt market will not

ket can outperform the rest

Deta from the Halifax house price index showed kets are very well aware of bouse price inflation of 5.4 per cent in the year to October, against 6.9 per cent in the year to September.

Andrew Roberts, gilt strategist at UBS, said be was surprised the market had not rallied at the short end on that data, which suggested asset price inflation was not as significant as the Bank of England might Other European bond mar-

kets were underpinned by bunds and developments on equity markets, closing moderately higher though with little real investor activity. ITALIAN BTPs ended near the top of their narrow trading range, still benefiting up to 6.226 per cent. The 10-

the epread over 10-year yield 5.692 per cent. bunds unchanged at 63 basis points. Inflation data showing the consumer price index at 1.6 per cent for October,

compared with 1.4 per cent a month earlier, was seen as in line with forecasts, providing further support to the market. SPANISH BONOS also had a quiet session, with the December future settling at 103.25, up 0.16. Traders said

the markat was likely to

absorbed new bono auctions

due today of 5-year and 15year bonos. The treasury yesterday sold Pta72bn of three-year bonds and Pta217bn of 10-year bonds. US TREASURIES moved lower as traders prepared for sury issues from previous new anctions of Treasury issues. By midday the benchmark 30-year bond had fallen

% at 1011, sending the yield

the details. while the two-year note inched is lower at 99%, to high-yield

US bonds were stronger overnight as the Hong Kong stock exchange traded lower. but prices moved lower in morning trading as US stocks traded only modestly

With diminishing volatility in stocks, bond traders are paying more attention to other things, like supply," said Kevin Logan, senior market economist at Dresdner, Kleinwort Benson in New York. Some \$14bn in trade aideways as it be auctioned later in the afternoon, while \$11bn in 10-year notes should hit the market today. The new auctions continue the trend of a diminishing supply of Trea-

> months and quarters. A report on leading economic indicators rose 0.2 per cent for September, but the report had little impact on

### Emu 'set Derivatives to benefit trades hit fresh highs sector'

European economic and monetary union will favous the development of nascen markets for European highyield bonds and credit derivatives, according to Stan-dard & Poor's, the US credit

rating agency. Euru is likely to lead to the development of the first domestic bond market large enough to challenge the size of the US debt market, S&P also says in a report published today.

"European financial markets have already begun to evolve into what many analysts believe a post-Emu world will look like," S&P

The high-yield debt sector should benefit particularly from the move to a single currency - the euro - as European companies turn increasingly to the bond market to add long-term funding to complement their reliance on bank loans.

Although no substantial rating changes are expected as a direct result of Emu, S&P expects a positive overall effect on the credit quality of corporate borrowers.

The transition to the euro, however, is likely to challenge a large number of borrowers, including governments struggling to meet the convergence criteria set out in the Maastricht Treaty and banks which will lose an important source of revennes with the removal of currency risk.

S&P, however, is optimis-tic that Emu will offer posi-

after-hours systems. 'Trading on the CME's Globex system totalled a record 734,374 contracts, while business on the CBOT's Project A trading Volatility on world financial system rose to a new high of markets last month gave a 950,646 contracts. huge boost to derivatives

Tell suff

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PROCE BURGEST OF THE

lu London, Llife set a record of 25.7m contracts. With 181.8m contracts trad-Tha Chicago Board of ing in the first 10 months, Trade regained its world Liffe surpassed its 1996 ing in the first 10 months, record. The exchange also had its busiest day ever on October 9, trading almost 2m contracts in a single session. Liffe attributed the rise in

Financial Futures and Options Exchange volumes to uncertainty over it had traded 28.6m contracts European monetary union and last week's turmoil in the financial markets. ln continental Europe,

Frankfurt's Deutsche Terminborse traded a record 13m lots, 33 per cent ahead of the previous month and up more than 90 per cent year-on-year.

Matif. the French derivatives exchange, had its busiest October with 7.7m contracts traded. Volume in the Plbor three-month interest rate contract was up almost which surrounded their 50 per cent with 1.7m cunlaunch. During the month, tracts traded.

 Trading on the DTB was suspended for more than 30 minutes yesterday, due to problems with computer hardware. An exchange nfficial said trading had stopped at about 1pm (Frankfurt time) and resumed at 1.40pm.

Separately. announced it was launching the first futures contract on implied volatility. The Volax future will allow traders to bet on - or protect themselves against - sharp changes in the expected volspillad over into the atility of the Dax index of puterised leading German shares.

### World Bank issue well met

INTERNATIONAL BONDS By Edward Luce

The World Bank yesterday dipped its toe into the water with its first offering since the markets went into freefall two weeks ago. An official at Citibank, joint lead with Cariplo, J.P. Morgan and BCI, said the deal was rate. This is designed to increased by L100bn to give investors the incen-L300bn owing to "healthy" demand from institutional

The bond, which provides a combination of fixed-rate and floating-rate elements known as a "reverse floater" bond, offers a coupon of

01/17 11/01 01/07

M AFRICA/MIDDLE EAST

investors.

11.05 per cent to investors for the first two years of the deal. This compares with a coupon of 10.25 per cent on the last lira-denominated "reverse floater" in September.

After two years, the bond converts to a floating rate coupon of 16 per cent minus double the prevailing Libor tive of punting on the possibility of very low shortterm floating rates after the euro comes into being in January 1999.

This has been a very good post-turmoil debut," said the official. The banker added

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that from the borrower's clais said that investment tors are the ones support point of view, the higher coupon was fully compensated for by the availability of higher swap rates into US dollars since the market alide late last

month. Elsewhere, the secondary markets continued to stabilise although syndicate offi-

Sett price Change

98.96 +0.28 98.42 +0.28 98.00 +0.28

Open Sett price Change High

M US TREASURY BOND FUTURES (CBT) \$100,000 32rds of 100%

III NOTIONAL LONG TERM JAPANESE GOVT, BOND PUTURES

on their books.

positions on their proprietary operations which had sustained heavy losses over the past fortnight. "Tha end-account inves-

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98.98 98.44 97.80

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Subordinated loan: £214m. b) 11.05% to 18/12/99, then 18% - 2 x 12-mth Libor. c) Fungible with L200bn. Cellable and puttable in Jul 00 at per. c1) 3-mth Libor +50bp. l) Long 1st coupon, s) Short 1st coupon.

banks still had large inven- ting the market by snaptories of recent bond issues ping up bargains," said one syndicate head. "Investment In addition, investment banks are still long on a banks were still unwinding lot of emerging market paper." Officials estimated tive potential for "well-prethat losses amounted to pared firms" and "banks between one and three that survive the transition". months of investment banks' | Standard & Poor's Credit-

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bey Nat FFIN	03/07	6,000	A/Ar	101.7318	7.50	-0.05	+0.75	+1.37
EURO E			:					
В	12/07	7.625	AAA	105.1978	6.89	-0.02	+0.44	-0.33
esdner Bk	12/07	7.750	AA	103.1140	7.30	-0.14	-0.46	-0.74
35	01/07	8.375	A+	106,3045	7.40	-0.01	+0.39	-0.84
Doy Nat FRN	02/02	7.400	AA	89.9386	6.70	-0.01	+0.34	-0.02
EUROS .			17. 1.				٠.	
В	D4/07	7.250	AAA	105.9128	6.39	+0.04	+0.05	+0.44
SN Amro	06/07	7.125	AA	102,9666	6.70	+0.01	+0.13	-0.75
ebec.	01/07	7.000	A+	102.2333	6.67	+0.01	+0.11	-0.72
dcorp FRN	02/04	5.781	A+	99.3771	5.90	-0.02	+0.27	-0.03
EURO CS		2.3						
ver L-Bk	08/04	9.500	AAA	120.3019	5.78	+0.02	-0.27	-0.17
ronto	05/04	8.500	AA+	114.9627	5.69	+0.01	+0.13	+0.08
A Canada	07/99	10.625	A+	108.8943	4.97	-0.02	+0.41	+0.06
autache B PRIN	09/02	5.875	***	102.0006	5.40	+0.02	+0.27	-0.05
EURO YEN					- : :	· '.	#	•
		5.250		117.4800	1.14	_		+0.07
ein	03/02					_		+0.12
ed Foncier	08/02					-0.02		+0.49
y FFIN	07/99	0.594			0.26	-	+0.12	-0.20
ndon closino.		_		8	ca: inte	ractive D	sta/FT I-d	Connection
	natings. Yk	ida: Loca	at market	standard/Ar	TVOTOS	d basis.		CA I PARILLE
	-					_		
	rid Bank ain id Foncier y FRN don closing.	rid Bank 03/02 ain 03/02 od Foncier 08/02 y FRN 07/39	rid Bank 03/02 5.250 ain 03/02 5.750 od Foncier 08/02 4.750 y FRN 07/59 0.594 clon closing.	rid Bank 03/02 5.250 AAA ah 03/02 5.750 AA did Foncier 08/02 4.750 A y FRN 07/39 0.594 AA aton eloning.	rid Bank 03/02 5.250 AAA 117.4800 an 03/02 5.750 AA 119.3500 di Foncier 08/02 4.750 AA 119.3500 pr FRN 07/39 0.594 AA 100.4314 don closing.	rid Bank 03/02 5.250 AAA 117.4600 1.14 an 03/02 5.750 AA 119.3500 1.19 di Foncier 08/02 4.750 A 114.505 1.58 y FRN 07/39 0.594 AA 100.4314 0.28 dion closing.	rid Bank 03/02 5.250 AAA 117.4600 1.14 - ah 03/02 5.750 AA 119.3500 1.19 - d Fonoier 08/02 4.750 A 114.5036 1.56 -0.02 FNN 07/99 0.594 AA 100.4314 0.26 -	rid Bank 03/02 5.250 AAA 117.4600 1.140.03 an 03/02 5.750 AA 119.3500 1.190.05 di Foncier 08/02 4.750 A 114.5056 1.56 -0.02 +0.12 y FRN 07/39 0.594 AA 100.4314 0.26 - 40.12 don closing.

	AK St 12/01 8.13 EB 104,0000 0.00 - EB 04/07 7.250 AAA 105,9128 6.39 +0.04 +0.05 +0.4 Pagatha 06/04 10.75 B 98,0000 0.00 - ABN Arro 98/07 7.125 AA 102,9868 6.70 +0.01 +0.13 -0.7
FUTURES OPTIONS (LIFFE) DM250,000 points of 100%	New York closing. Source: Intermedian Desa/FT Information. Quebec 01/07 7,000 A+ 102,2333 6,67 +0,01 +0,11 -0,7
Dec Jan Feb Mar Dec Jan Feb Mar	Stenderd & Poor's ratings. Yields: sent-across basis.  Citicorp FRN 02/04 5.781 A+ 99.3771 5.90 -0.02 +0.27 -0.0
0.52 0.48 0.70 0.88 0.40 1.08 1.28 1.45	Beyer L-8k 08/04 9.500 AAA 120.3019 5.78 +0.02 -0.27 -0.1
0.28 0.31 0.51 0.66 0.66 1.40 1.60 1.76	Toronto 05/04 8.500 AA- 114.9627 5.89 +0.01 +0.13 +0.0
0.13 0.19 0.37 0.50 1.01 1.78 1.96 2.09 L Cells 15368 Puts 23679. Previous day's open int., Calls 232474 Puts 278333	Gel Caracia 07/89 10.025 A+ 100.0943 4.97 -0.02 +0.41 +0.0
, Calls 15368 Puts 23679. Previous day's open Int., Calls 232474 Puts 275533	One month Two year 5.71 # (SURO YEN)
	1700 (M)
AL GERMAN AUND (BOBL) FUTURES 250,000 100ths of 100%	Fed Bunds 5.6 Six month 5.34 10-year 5.33 Spein 03/02 5.750 AA 119.3500 1.190.05 +0.1
	Italy FEIN 07/50 0.594 AA 100 4314 0.29
Open Sett price Change High Low Est. vol Open int. 103.61 103.60 +0.02 103.69 103.35 108.867 288.319	
102.94 102.92 +0.03 102.95 102.92 2,212 29,101	London closing. Source: Interactive DetayF7 Information Strendard & Poor's natings. Yields: Local market standard/Annualised basis.
	UK BONDS
AL ITALIAN GOVT. BOND (BTP) FUTURES	
Ira 200m 100ths of 100%	FTSE Actuaries Govt. Securities UK Indices
Open Sett price Change High Low Est, vol. Open Int. 111.68 111.88 +0.22 111.62 111.65 29596 110744	and a series and a
111.90 112.01 +0.28 112.03 111.90 246 1976	1 1 a 5 mm HOL 117 co 0 co 110 co 0 co 110 co 0 co 0 co 0
OVT. BOND (BTP) FUTURES OPTIONS (LIFFS) Lies200m 100ths of 100%	2 -5-15 years (20) 157.90 0.07 157.78 3.50 9.03 15 yrs 8.55 6.56 7.83 6.55 6.57 7.82 6.63 5.83 7.85
PUTS	. 3 Over 15 years (4) 188.79 0.17 188.48 4.25 9.77 20 yrs 6.55 6.58 7.93 6.53 6.55 7.90 6.62 6.63 7.92
Dec Mar Dec Mar	4 Irredeernables (4) 230,12 0.09 229,90 5.11 8.50 Irred.† 6.63 6.64 7.97 5 All stocks (47) 150,88 0.06 150,79 3.23 8.30
0.72 1.64 0.34 1.18 0.44 1.37 0.56 1.36	— Inflation 5% — — Inflation 10% —
0.24 1.11 0.86 1.80	Indian-finited Nov 3 Yr, ago Nov 4 Nov 3 Yr, ago
Calle 4850 Puts 3404. Previous day's open int., Calle 151689 Puts 123914	6 Up to 5 years (2) 210.80 0.02 210.75 0.56 6.09 Up to 5 yrs 8.10 8.16 3,17 2.48 2.48 2.52 7 Over 5 years (10) 214.74 0.04 214.84 1.54 5.21 Over 5 yrs 8.11 8.11 3.60 2.91 2.91 3.40
	9 All stocks (12) 218.25 0.04 218.16 1.43 5.26
SPANISH BOND FUTURES (MEFF)	Average gross rademption yields are above. Coupon Bender, Low; 096-795%; Medium: 876-1098%; High: 11% and over, 1 Flat yield, yiel Year to state.
Open Sett price Change High Low Est. vol. Open int.	
03.18 103.25 +0.17 103.26 103.05 38,980 94,490	FT Fixed Interest Indices
Open Sett price Change High Low Est. vol Open Int.	Nov 4 Nov 3 Oct 31 Oct 30 Oct 29 Yr ago Hight Low Nov 4 Nov 3 Oct 31 Oct 30 Oct 29 Yr ago Hight Low Government Securities high since complision: 127.40 (09/01/25), low 49.18 (02/01/75). Fixed International List 1997. At rights reserved. 100 Government Securities high since complision: 127.40 (09/01/25), low 49.18 (02/01/75). Fixed International List 1997. At rights reserved. 100 Government Securities 15/10/28 and Fixed Internat 1828. SE exhirtly Indices rebased 1974.  UK GILTS PRICES
L UK GILT FUTURIES (LIFFE)* 250,000 32nds of 100%  Open Sett price Change High Low Est. vol Open Int. 18-12. 118-16 +0-03 118-18 118-10 72104 161710	Govt. Secs. (UNC) 100.01 99.92 100.18 100.09 99.81 99.76 101.83 93.91 Fixed interest 132.36 132.92 132.92 132.92 132.28 132.40 115.38 133.54 116.32 of FTSE international Ltd 1997. At rigids reserved. For 1997. Government Securities high since complision: 127.40 (09/01/25), for 49.18 (03/01/75). Fload interest high since complision: 130.87 (21/01/84), low 80.92 (03/01/75). Beals 100* Government Securities 15/10/28 and Fload Interest 1922. SE exhibity indices related of 1974.  UK CILTS PRICES  Yeld
L UK GILT FUTURIES (UFFE)* 250,000 32nds of 100%  Dpen Sett price Change High Low Est. vol Open Int. 18-12. 118-16 +0-03 118-18 118-10 72104 161710 18-27 118-02 +0-09 119-03 118-27 24543 25860	Govt. Secs. (UNC) 100.01 99.92 100.18 100.09 99.81 99.76 101.83 93.91 Fixed intersect 132.36 192.92 192.78 132.40 115.38 133.54 116.32 of FTSE intermetational Ltd 1997. At rights reserved. 1 for 1697. Government Securities high since complisator: 127.40 (09/01/25), low-4s.18 (03/01/75). Post interest high since complisator: 133.87 (21/01/84), low-80.82 (08/01/75). Beals 1007 Government Securities 15/10/28 and Feed Interest 1828. SE extirity Indices related interest high since 1274.  UK CHLTS PRICES  Your Securities 15/10/28 and Feed Interest 1828. SE extirity Indices related 1974.  White Securities 15/10/28 and Feed Interest 1828. SE extirity Indices related 1974.  Your Securities 15/10/28 and Feed Interest 1828. SE extirity Indices related 1974.  Your Securities 15/10/28 and Feed Interest 1828. SE extirity Indices related 1974.
L UK GILT FUTURIES (LIFFE)* £50,000 32nds of 100%  Open Sett price Change High Low Est. vol Open Int. 18-12 118-16 +0-03 118-18 118-10 72104 161710 18-27 119-02 +0-09 119-03 118-27 24643 25860  T FUTURIES OPTIONS (LIFFE) £50,000 64ths of 100%	Govt. Secs. (UNC) 100.01 99.92 100.18 100.09 99.87 99.76 101.83 93.31 Fixed internet 132.36 132.92 132.92 132.92 132.92 132.93 132.40 115.38 133.54 116.32 compliation: 133.67 (21.07.094), low 90.87 (20.07.075). Fixed internet 132.87 (21.07.094), low 90.87 (21.094), low 90.87 (21.07.094), low 90.87 (21.094), low 90.87 (21.
L UK GILT FUTURIES (LFFE)* 850,000 32nds of 100%  Open Sett price Change High Low Est. vol Open Int. 118-12 118-16 +0-03 118-18 118-10 72104 161710 118-27 119-02 +0-09 119-03 118-27 24543 35850  LT FUTURES OPTIONS (LFFE) 250,000 64ths of 100%  CALLS PUTS	Govt. Secs. (UNC) 100.01 99.92 100.18 100.09 99.87 99.76 101.83 93.31 Fixed internet 132.36 132.92 132.92 132.92 132.92 132.40 115.38 133.54 116.32 of FTSE transmistoral Ltd 1997. At rights reserved. For 1997. Government Securities high since complision: 127.40 (09/01/25), low 49.18 (03/01/75). Fixed internet light since complision: 127.40 (09/01/25), low 49.18 (03/01/75). Fixed internet light since complision: 127.40 (09/01/25), low 49.18 (03/01/75). Fixed internet light since complision: 127.40 (09/01/25), low 49.18 (03/01/75). Fixed internet light since complision: 127.40 (09/01/25), low 49.18 (03/01/75). Fixed internet light since complision: 127.40 (09/01/25), low 49.18 (03/01/75). Fixed internet light since complision: 127.40 (09/01/25), low 49.18 (03/01/25), low 49.18 (03/01
L UK GILT FUTURIES (LFFE)* 250,000 32nds of 100%  Dpen Sett price Change High Low Est. vol Open Int. 18-12 118-16 +0-03 118-18 118-10 72104 161710 18-27 119-02 +0-09 119-03 118-27 24543 25860  T. FUTURIES OPTIONS (LIFFE) 250,000 64ths of 100%  Doc Jan Feb Mar Dec Jan Feb Mar -01 1-54 2-11 2-37 0-33 0-50 1-07 1-27	Govt. Secs. (UNC 100.01 99.92 100.18 100.09 99.81 99.76 101.83 93.91 Fixed intersect 132.36 132.92 132.92 132.92 132.40 115.38 133.54 116.32 of FTSE intermetational Ltd 1997. At rights reserved. 1 for 1007. Government Securities high stress complisation: 127.40 (09/01/35), low 49.18 (03/01/75). Basis 1007. Government Securities 15/10/28 and Fleed Interest 1822. SE activity inclines rebased 1974.  UK GILTS PRICES    Visid
L UK GILT FUTURIES (LIFFE)* £50,000 32nds of 100%  Open Sett price Change High Low Est. vol Open Int. 18-18. 118-16 +0-03 118-18 118-10 72104 161710 18-27 119-02 +0-09 119-03 118-27 24543 35860  T FUTURES OPTIONS (LIFFE) £50,000 64ths of 100%  CALLS PUTS  OCC. Jan Feb Mar Dec Jan Feb Mar  1-154 2-11 2-31 0-33 0-50 1-07 1-27 -33 1-17 1-39 1-58 1-01 1-13 1-36 1-54	Govt. Secs. (UNC) 100.01 99.92 100.18 100.09 99.81 99.76 101.83 93.51 Fixed intersect 132.36 132.92 132.92 132.92 132.40 115.38 133.54 176.32 correlations Ltd 1997. At Agins reserved. For 1697. Government Securities high since correlations 127.40 (09/01/36), low 49.18 (02/01/36), low 4
L UK GILT FUTURIES (LIFFE)* £50,000 32nds of 100%  Open Sett price Change High Low Est. vol Open Int.  18-18 118-16 +0-03 118-18 118-10 72104 161710  18-27 119-02 +0-09 119-03 118-27 24543 25850  T. FUTURIES OPTIONS (LIFFE) £50,000 64ths of 100%  CALLS PUTS  Occ Jan Feb Mar Dec Jan Feb Mar  -01 1-54 2-11 2-31 0-33 0-50 1-07 1-27  -33 1-17 1-39 1-58 1-01 1-13 1-35 1-54  1-12 0-52 1-10 1-28 1-48 1-48 2-06 2-24	Govt. Secs. (UNC) 100.01 99.92 100.18 100.09 99.87 99.76 101.83 93.31 Fixed interest 132.36 132.92 132.92 132.92 132.92 132.40 115.38 133.54 116.32 or FTSE transmissional Ltd 1997. At rigids repeatwed. For 1997. Government Securities high since complision: 127.40 (09/01/25), low 49.18 (03/01/75). Fixed interest high since complision: 127.40 (09/01/25), low 49.18 (03/01/75). Fixed interest high since complision: 127.40 (09/01/25), low 49.18 (03/01/75). Fixed interest high since complision: 127.40 (09/01/25), low 49.18 (03/01/75). Fixed interest high since complision: 127.40 (09/01/25), low 49.18 (03/01/75). Fixed interest high since complision: 127.40 (09/01/25), low 49.18 (03/01/75). Fixed interest high since complision: 127.40 (09/01/25), low 49.18 (03/01/75). Fixed interest high since complision: 127.40 (09/01/25), low 49.18 (03/01/75). Fixed interest high since complision: 127.40 (09/01/25), low 49.18 (03/01/75). Fixed interest high since complision: 127.40 (09/01/25), low 49.18 (03/01/75). Fixed interest high since complision: 127.40 (09/01/25), low 49.18 (03/01/25), low 49.18 (0
Lux Gil.T FUTURIES (LFFE)* 250,000 32nds of 100%	Govt. Secs. (UNC) 100.01 99.92 100.18 100.09 99.87 99.76 101.83 93.31 Fixed interest 132.36 132.92 132.92 132.92 132.92 132.40 115.38 133.54 116.32 or FTSE transmissional Ltd 1997. At rigids repeatwed. For 1997. Government Securities high since complision: 127.40 (09/01/25), low 49.18 (03/01/75). Fixed interest high since complision: 127.40 (09/01/25), low 49.18 (03/01/75). Fixed interest high since complision: 127.40 (09/01/25), low 49.18 (03/01/75). Fixed interest high since complision: 127.40 (09/01/25), low 49.18 (03/01/75). Fixed interest high since complision: 127.40 (09/01/25), low 49.18 (03/01/75). Fixed interest high since complision: 127.40 (09/01/25), low 49.18 (03/01/75). Fixed interest high since complision: 127.40 (09/01/25), low 49.18 (03/01/75). Fixed interest high since complision: 127.40 (09/01/25), low 49.18 (03/01/75). Fixed interest high since complision: 127.40 (09/01/25), low 49.18 (03/01/75). Fixed interest high since complision: 127.40 (09/01/25), low 49.18 (03/01/75). Fixed interest high since complision: 127.40 (09/01/25), low 49.18 (03/01/25), low 49.18 (0
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L UK GILT FUTURIES (LIFFE)* £50,000 32nds of 100%  Deen Sett price Change High Low Est. vol Open Int. 18-12 118-16 +0-03 118-18 118-10 72104 161710 18-27 119-02 +0-09 119-03 118-27 24543 35860  IT FUTURES OPTIONS (LIFFE) £50,000 64ths of 100%  CALLS PUTS  OCC Jam Feb Mar Dec Jam Feb Mar 01 1-54 2-11 2-31 0-33 0-50 1-07 1-27 33 1-17 1-39 1-58 1-01 1-13 1-35 1-54 12 12 0-52 1-10 1-28 1-48 1-48 2-06 2-24 cats 3121 Puts 0. Previous day's open Int., Calls 69657 Puts 27175	Govt. Secs. (UNC) 100.01 99.92 100.18 100.09 99.81 99.76 101.83 93.31 Fixed interest 132.36 132.92 132.92 132.92 132.40 115.38 133.54 176.32 compliator: 133.67 (21.07.64), low 50.52 (23.07.75). Beats 100.7 Government Securities high since compliator: 127.40 (09.07.75), low 49.18 (23.07.75). Post interest high since compliator: 133.67 (21.07.64), low 50.52 (23.07.75). Beats 100.7 Government Securities 157.028 and Feed Interest 1828. SE early Indices released 1974.  UK CILTS PRICES    Visit
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L UK GILT FUTURIES (LIFFE)* 250,000 32nds of 100%  Open Sett price Change High Low Est. vol Open Int. 18-18. 118-16. +0-03. 118-18. 118-10. 72104. 161710. 18-27. 118-02. +0-09. 118-03. 118-27. 24543. 35880.  T. FUTURIES OPTIONS (LIFFE) 250,000 64ths of 100%  CALLS PUTS  OC. Jan. Feb. Mer. Dec. Jan. Feb. Mer	Govt. Secs. (UPC) 100.01 99.92 100.18 100.09 99.87 99.76 101.83 93.31 Fixed interment 132.36 132.92 132.92 132.92 132.40 115.38 133.54 176.32 compliation: 133.67 (21.07.64), low 50.52 (28.07.75). Bank 100. Government Securities 157.028 and Food interment 1828. Se entirely indices released 1974.  UK CILTS PRICES    Visit
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L UK GILT FUTURIES (LFFE)* 250,000 32nds of 100%  Open Sett price Change High Low Est. vol Open Int.  18-18. 118-16 +0-03 118-18 118-10 72104 161710  18-27 118-02 +0-09 119-03 118-27 24543 35850  T FUTURIES OPTIONS (LIFFE) 250,000 64ths of 100%  CALLS PUTS  OCC Jan Feb Mer Dec Jan Feb Mer  O1 1-54 2-11 2-31 0-33 0-50 1-07 1-27  33 1-17 1-39 1-58 1-01 1-13 1-35 1-54  1-31 0-52 1-10 1-28 1-48 1-48 2-05 2-24  Calls 3121 Puts 0. Previous day's open Int., Calls 69657 Puts 27175  D FUTURIES (MATR) ECU100,000  Open Sett price Change High Low Est. vol. Open Int.	Govt. Secs. (UR) 100.01 99.92 100.18 100.09 99.87 99.76 101.83 93.51 Fixed infarrest: 132.36 132.92 132.92 132.76 133.54 115.32 0 FTSE infarrestional Lidd 1997. At Afgins reserved, for 1997. Government Securities high either complaintors: 137.07 GROUTIS, low 49.18 (GROUTIS, low 49.18 (
L UK GILT FUTURIES (LFFE)* 250,000 32nds of 100%  Open Sett price Change High Low Est. vol Open Int.  18-18. 118-16 +0-03 118-18 118-10 72104 161710  18-27 118-02 +0-09 119-03 118-27 24543 35850  T FUTURIES OPTIONS (LIFFE) 250,000 64ths of 100%  CALLS PUTS  OCC Jan Feb Mer Dec Jan Feb Mer  O1 1-54 2-11 2-31 0-33 0-50 1-07 1-27  33 1-17 1-39 1-58 1-01 1-13 1-35 1-54  1-31 0-52 1-10 1-28 1-48 1-48 2-05 2-24  Calls 3121 Puts 0. Previous day's open Int., Calls 69657 Puts 27175  D FUTURIES (MATR) ECU100,000  Open Sett price Change High Low Est. vol. Open Int.	Govt. Secs. (UN) 100.01 99.21 100.18 100.09 99.81 99.76 101.83 99.31 Found interest 132.36 132.22 132.92 132.76 132.40 115.38 133.54 116.32 or FTSC intermational List 1997. At rights reserved. For 1997. Government Securities high white compliation: 123.67 (2017)99, how 50.33 (2017)79, Basels 100 Government Securities 157/028 and Feed Interest 1622. SE exhibity indices reheated 1974.  UK GILTS PRICES    Note   Mail   Price E + or   High   Low   Note   Mail   Red   Price E + or   High   Low   Red   Price E + or
L UK GILT FUTURIES (LFFE)* 250,000 32nds of 100%  Open Sett price Change High Low Est. vol Open Int. 18-18 118-16 +0-03 118-18 118-10 72104 161710 18-27 119-02 +0-09 119-03 118-27 24543 35850  T. FUTURIES OPTIONS (LFFE) 250,000 64ths of 100%  CALLS PUTS  Occ Jan Feb Mar Dec Jan Feb Mar Open Jan Feb Mar -01 1-54 2-11 2-31 0-33 0-50 1-07 1-27 -33 1-17 1-39 1-58 1-01 1-13 1-35 1-54 1-12 0-52 1-10 1-28 1-48 1-48 2-06 2-24 Cats 3121 Puts 0. Previous day's open int. Calls 69657 Puts 27176  D. FUTURIES (MATR) ECU100,000  Open Sett price Change High Low Est. vol. Open Int. 77.80 97.98 +0.12 98.06 97.90 1,844 5,940	Govt. Secs. (UR) 100.01 99.92 100.18 100.09 99.87 93.76 107.83 99.87 Found interest 132.36 132.92 132.92 132.26 132.40 115.38 133.54 116.32 or FIRST Intermedical List 1997. At highes reserved. In the 1997. At highes reserved. In 100 Government Securities high whose compilation: 123.79 (1997.) At highes reserved. In the 100 Government Securities high whose compilation: 123.79 (1997.) At highes reserved. In 100 Government Securities high whose compilation: 127.40 (1997.) Reset intermed high since compilation: 123.79 (1997.) At highes reserved. In 100 Government Securities high whose compilation: 123.79 (1997.) Reset intermed high since compilation: 122.79 (1997.) Reset intermed high since
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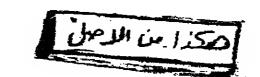
#### WORLD BOND PRICES **BENCHMARK GOVERNMENT BONDS BOND FUTURES AND OPTIONS** Fled Bid Bid Day chig Wk chig Month Year Date Coupon Price Yield yield yield chig yid chig yid France M NOTIONAL FRENCH BOND FUTURES (MATIF) FF:500,000 4.58 -0.01 +0.03 -0.30 -0.84 8.68 -0.02 -0.04 -0.21 -0.40 4.37 -0.03 -0.04 +0.29 +0.81 8.74 -0.04 -0.04 -0.25 -0.40 7.000 103.6500 6.250 103.8200 I LONG TERM FRENCH BOND OPTIONS (MATIF) 4.03 -0.03 +0.03 +0.27 -0.02 5.55 -0.01 -0.01 -0.05 -0.75 4.000 99.9600 7,250 112,3500 8.000 102.3000 4.81 -0.02 - -0.25 +0.32 7.000 106.1600 8.19 -0.01 -0.02 +0.23 -0.74 71,000 107,4850 4,37 -0.02 +0.12 +0.30 +0.34 7,250 109,4910 5.79 +0.01 -0.01 +0.27 -0.81 11/99 7.000 104.9200 10/04 5.750 108.1800 4.39 -0.01 -0.04 +0.29 +0.56 6.31 -0.02 -0.03 +0.23 -0.18 5.62 -0.02 -0.04 6.23 -0.02 -0.05 +0.23 -0.35 +0.23 -0.60 ■ NOTIONAL GERMAN BUND FUTURES (LIFFE)\* DM250,000 100ths of 100% 3.500 96.8700 6.750 107.8600 +0.30 +0.54 6.250 101,0900 5.39 -0.01 -0.07 8.000 112,7500 6.08 -0.02 -0.02 8.000 101.4700 5.37 -0.01 -0.06 +0.09 -1.51 8.250 102.3800 5.64 -0.03 -0.05 -0.12 -1.62 5.750 104.4800 6.13 -0.02 -0.07 -0.12 -1.98 7.250 107.8000 6.84 -0.02 -0.06 -0.04 -2.06 4.800 108.9500 0.46 - - +0.03 -0.96 4.900 117.5100 1.23 -0.01 -0.01 -0.14 +0.64 3.000 109.6600 1.86 - - -0.17 +0.84 3.500 115.8200 2.46 -0.01 -0.03 -0.24 +0.79 7,500 104,7400 4.35 - +0.05 -0.27 -0.66 5,750 101,1900 5.58 -0.02 -0.05 +0.21 -0.31 8.500 \$9.1369 6.90 +0.02 +0.08 +0.21 +0.01 8.000 108.6246 6.89 +0.04 +0.25 +0.15 -0.58 7,400 104,0587 4,87 -0.01 -0.02 +0.20 -1.82 7,350 109,4337 8.00 -0.02 -0.02 +0.26 -1.79 NOTIONAL ITALIAN GOVT. BOND (BTP) FUTURES (LIFFE) Line 200m 100ths of 100% III ITALIAN GOVT, BOND (BTP) FUTURES OPTIONS (LIFFE) Lin200m 100ths of 100% 5.875 100.1880 5.75 +0.04 -0.02 +0.03 -0.01 7.250 107.0160 5.84 -0.02 -0.04 +0.05 -0.14 6.125 101.4690 6.83 +0.03 -0.04 -0.07 -0.41 6.375 101.8750 6.23 +0.02 -0.08 -0.08 -0.43 03/99 5.000 100.4000 4.67 +0.04 +0.19 +0.34 04/07 5.500 98.0500 5.77 -0.02 -0.08 -0.20 -0.63 10 YEAR BENCHMARK SPREADS Australia Australia Belgum Canada Denman Fintand France Germon inetand Italy Japan Nethenk +1.09 +0.21 +0.44 +0.40 -0.80 -2.00 +0.35 +0.17 MOTIONAL UK GILT FUTURIES (LIFFE)\* \$50,000 32nds of 100% ■ LONG GILT FUTURES OPTIONS (LIFFE) 250,000 64ths of 100% EMERGING MARKET BONDS

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5.500 BB 66.7689 9.14 -0.36 +1.13 +2.99 5.250 BB 67.0342 9.26 -0.02 +0.99 +3.10 6.250 BB 81.6087 8,04 +0.03 +0.36 +1.94 6.750 B+ 84.2470 8.31 -0.12 +0.57 +2.20



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Investment Banking Association

### **CURRENCIES AND MONEY**

## Yen suffers in wake of Asian turmoil

MARKETS REPORT

The yen yesterday slumped to its lowest point against the D-Mark since May, hit by fears over Japan's financial sector, the recent slides in south east Asian markets, and by Europe's nascent economic recovery.

Monday's failure of Sanyo kerage, continued to weigh on traders' minds.

The D-Mark was buoyed against the dollar by Russia's rescheduling of \$25bn in debt with the London Club of international creditors. A greater share of the debt is to be denominated in dollars, and traders said Russia sold dollars in the market yesterday in order to

bedge this portion of debt.
The onshore Thai baht jumped nearly 6 per cent against the dollar after Chavalit Yongchaiyuch, Thailand's prima minister.

said he would resign tomor- week's equity slides. row. The market believes lems. The Indonesian rupiah, to DM1.721. The dollar rose which jumped nearly 9 per \$40bn international rescue package and concerted mar-

just 2 per cent yesterday. Securities, the Japanese bro- Hong Kong stock market currencies in the wake of the south-east Asian currencies. both had to intervene to support their currencies. The foreign exchange mar-

ket is no longer tracking the hour-by-bour movea in global atock markets, as nerves recover after last

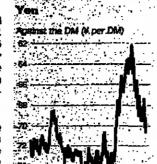
E Pound in New York Her 4 ---- Prev. close ~ 1.6855 1.5830 1.6789 1.6807

The D-Mark jumped Y1.24 that the country is now to close in London at Y70.81 more likely to take action to against the yen. It gained 1.5 tackle its economic prob- pfennigs against the dollar

Y1.1 against the yen to cent on Monday thanks to a Y1219, but faces stiff resistance at Y122 and at Y123. ket intervention, fell back The D-Mark seems to be ust 2 per cent yesterday. emerging as the market's Tha 4 per cent fall in the favourite of the Big Three yesterday barely dented Asian crisis. Goldman Sachs points out that about 40 per

But the South Korean and cent of Japanese exports go Taiwanese central banks to the rest of Asia, while the US sends about 30 per cent of its exports to Asia including Japan. European econo-mies are far less vulnerable to a slowdown in Asia, the bank says.

It also notes that American dependence on foreign markets has grown since 1990, with US exports having risen from 9 per cent of gross domestic product then to more than 13 per cent now. "The dollar will suffer at



least as much as the yen, possibly more", from the Asian downturn, Goldman Sachs concludes.

■ The emerging markets' currencies crisis is changing shape. South-east Asia has been breathing more easily since Friday, as first Indonesia and now Thailand seem to have begun trying to tackle their problems.

DOLLAR SPOT FORWARD AGAINST THE DOLLA

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Desmond Lachman, head shifted to north Asia, particof emerging markets ularly Korea. The Brazilian research at Salomon real was also still in trouble. Brothers in New York, said: Peter von Maydell, senior "There was quite a big turn- currency economist at UBS around with the Indonesian in London, added: "The package. It was a lot larger weakness is only just beginthan anyone had thought. ning in north Asia."

And the content seemed to be in the right direction, E Goldman Sachs, whose going into areas like banking sector reform, the monopolies, the car project." Indonesia has also impressed 16 troubled banks.

bnoyed sentiment in the The focus of speculative attacks, be said, had now

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1.4017 2.1 8.3505 -12.4

One month Rete %PA

2.1 12.051 1.9 35.324 1.8 6.5183 2.3 5.148 2.2 5.732 2.2 1.7115 -5.7 274.06 0.7 1.5111 -1.2 7590.39 1.8 35.324 2.4 1.9287 2.0 6.9893 0.2 175.398 0.5 145.035 1.2 7.4924 4.0 1.3909 1.4 1.6792 -1.2 1.1508

power to move medium to minor currencies is notorious, says it has become more bearish on the Australian markets by moving to close dollar, the New Zealand dotlar, and the Greek drachma Mr Lachman said Hong It has slated the first two for Kong's vigorous defence of the drop because the Antipoits currency had further deans export heavily to Asia.

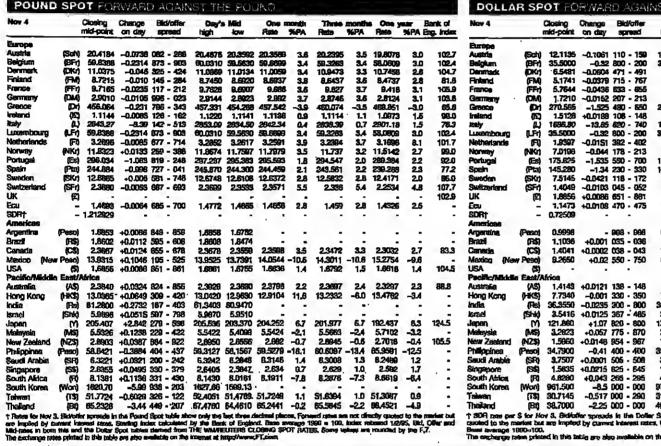
The drachma'a peg to the ecu survived large bonddriven outflows last week. But Goldman says that Greece, like Italy before 1992, is trying to achieve macro economic stability through an exchange rate anchor, leaving fiscal and monetary policy too loose. That boosted the real exchange rate 17 per cent between January 1993 and May 1997.

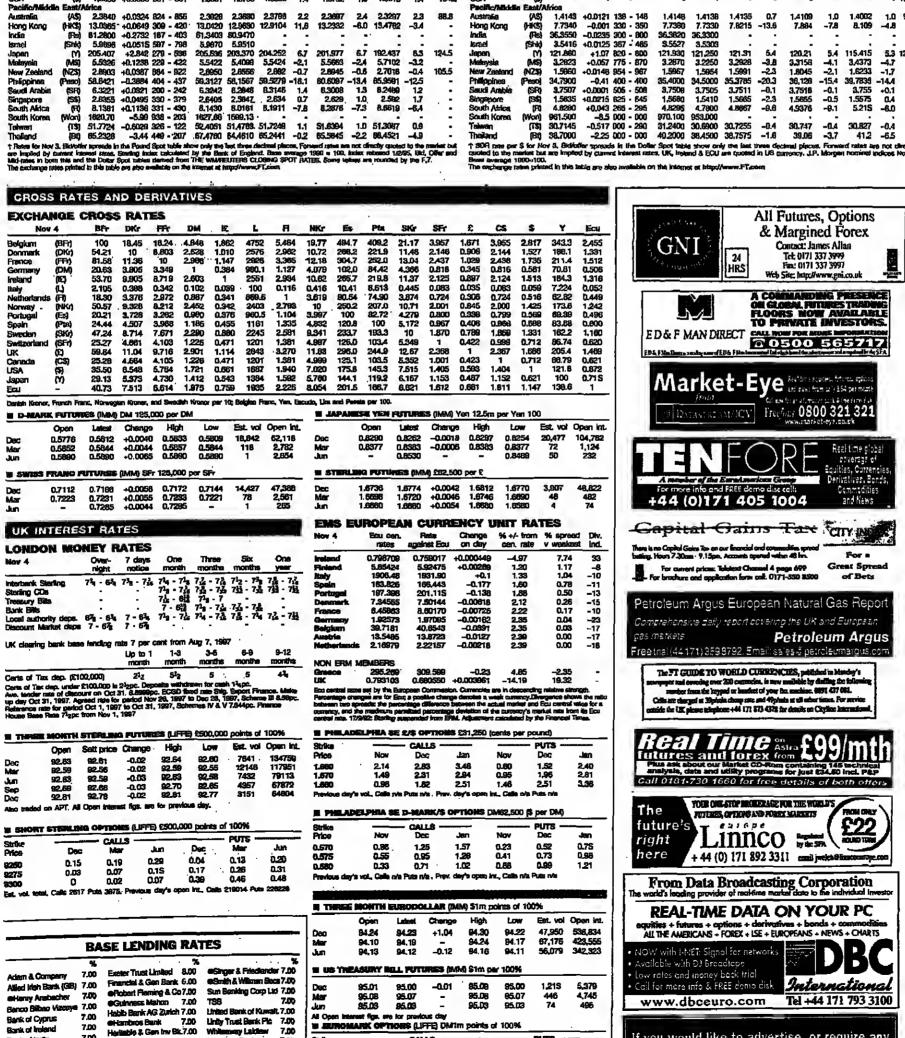
MONEY RA	TES							
November 4	Over night	One month	Three साप्रेड	Six mths	One year	Lomb, inter.	Des. rate	Rop
Belgium	3%	37	35	4	414	6.00	2.75	
France	3.	35	37	374	44	3.30	_	4.7
Germany	34	33	32	374	41	4.50	2.50	3.3
Ireland	634	64	65	53	5%	-	-	6.7
Baly	6	62	6.	5.	53	7.75	6.25	5.0
Netherlands	3%	3%	32	32	4	_	2.75	3.3
Switzerland	134	150	13	33 2	2	-	1.00	
ບຣ	55	5.5	52	52	537		5.00	
Japan	-1	-	-	7	2	-	0.50	
E SLESOR FT Lo	ndon							
Interbenk Fixing	-	52	574	5.	50		-	
US Dollar CDs	-	5.46	5.49	5.51	5.66	-	-	
ECU Linked Da	-	45	4.	4	47	-	-	
SDR Linked Ds		3-	3%	32	38		-	

Nov 4	Short 19mm	7 days	One	Three	Şix monthe	One
Belgan Franc Danish Krone German Mark Dutch Guilder French Franc Portuguese Esc. Spanish Peseta Stering Swiss Franc Canadian Dolar US Dollar Italian Lira Japanese Yen Asian SSing	311 - 313 312 - 313 312 - 313 312 - 313 314 - 313 514 - 513 514 - 513 514 - 513 514 - 513 614 - 612 514 - 31 514 - 3	54 · 54 74 · 74 14 · 14 31 · 34 59 · 51		37 - 37 37 - 34 37 - 34 31 - 31 31 - 31 51 - 52 51 - 51 11 - 11 54 - 51 62 - 62 43 - 42	44. 35. 44. 41. 31. 31. 31. 31. 31. 31. 31. 31. 31. 31. 51. 5. 51. 5.	414 - 415 414 - 415 415 - 416 415 - 416 415 - 416 416 - 416 416 - 416 516 - 516 516 - 516 517 - 516 518 - 416 418 - 416
Short term rates & THREE MOI	re call for th	e US Doller R FUTURE	and You ou	nors iwo day ans interban	s' notice. It offered rat	te

Short term	PE STORY	at for the US I PIBOR IR	Dollar an	d Yon ou	nors two da ons interbor	ys' notice. ik offered ro	ite
	Open	Sett pnce	Change	High	Low	Est vol	Open int
Dec	96.23	96.25	+0.02	96.26	96.23	11,268	48.676
Mar	95.96	95.97	+0 02	95 98	95 95	8,600	17.425
מעל	95.72	95.74	+0.02	95.75	95.72	73	31,136
m THPU	E MONTH	EUROMA	RK FUT	JRES (L	FFE) DM 1	m points of	100°a
	Open	Sett price	_	•		Est, vol	Open int
Dec	95.24	96.25	+0.02	86.26	96.74	37171	309978
Mer	95.99	96.00	+0 01	96.01	95.98	39712	326952
Jun	95.77	95.76	•	95 78	95.75	23429	286343
Sep	95.58	95.57 UROMARK		95.59	95.56	14967	197906
- ONE							
	Open	Sett price	-	High	Low	-	Open in
Nov		98.50	+0.01			0	148
Dec		96.23	+0.01			0	6109
Jan Feb		96.31 95.18	+0.01 +0.01			0	200
	E MONTH	EUROLIR		SES (LIFE	FEY 1,1000		50 200%
	Open	Sett pnce		High	Low	Est vol	
Dec	93.73	93.72		93 73	93.70	B157	108994
Mar	94.45	94,45		94.48	94.45	6126	106125
Jun	94,94	94.94	+0.02	94.96	94.93	6039	108527
Sep	95.07	95 07	+0.02	85.09	95 06	3625	65219
I THREE	MONTH E	JRO SWISS I	FRANC FL	TURES (	UFFE) SFr10	points of 10	ù.₀
	Open	Sett price	Change	High	Low	Est vol	Open int
Dec	98.00	97.99	-O.O T	98.01	97.96	5714	78925
Mer	97.60	97.81	+0.01	97.83	97 79	4219	50823
Jun	87.59	97.60	+0.02	97,61	97.58	2931	33368
Sep	97.40	97.41	+0.02	97.42	97.39	2650	18526
THRE		EUROYE	_		E) Y100m		
	Open	Sett price		High	Low		Open Int
Dec		99,48	-0.01			0	r <sub>s</sub> ,
Mar		99.46	-0.02			0	na
Jun	T MANTE	99,42	-0.01			0	na
I THRE		ECU FUT					
_	Open	Sett price	***	High	Low	Est. vol	
Dec	95.39	95.40	+0.01	95,41	95.39	672	10041
Mar	95.31	95.32	+0.02	95.32	95.30	189	6451
Jun	95.26	95.27	+0.01	95.27	95.26	93	5907
Sep	95.21 Une also m	95,21	+0.01	95.21	95.20	20	6570
		TONS (UFF	E) L1000	n points	of 100%		
Strike		CAL	LS			· PUTS -	
Price	De	g Ma	ч.	Jun	Dec	Mar	Jun
9350	0.26			.46	0.06	0.04	0.02
9875	0.72			.23	0.15	0.06	0.04
9400	0.0	4 0.55	5 1	.00	0.32	0.10	90.0

**TENDER NOTICE** 





CALLS Jan

Mar 0.13 0.05

0.05 0.01 0 0

Jun

Est. vol. total, Cate 3950 Pute 3525, Previous day's open int., Cate 367489 Pute 312427 to EURO 59755 FRANC OPTIONS (LIFFE) SFr Im points of 100%

PUTS

0.28 0.51 0.75 1.00

0.30 0.51 0.75 1.00

0.07 0.26 0.50 0.75

0.04 0.26 0.50 0.75

Dec

0.12 0.30



Jeremy Nelson

Tel: 0171-873-3447 Fax: 0171-873-3062

#### **UK GOVERNMENT ECU TREASURY BILLS** For tender on 11 November 1997 The Bank of England announces the issue by Her Majesty's Treasury of ECU 1,000 million nominal of UK Government ECU Treasury Bills, for tender on a bid-yield basis on Tuesday, 11 November 1997. An additional ECU 50 million nominal of Bills will be allotted directly to the Bank of England for the account of the Exchange Equalisation Account. 2. The ECU 1,000 million of Bills to be issued by tender will be dated 13 November 1997 and will be in the following ECU 200 million for maturity on 11 December 1997. ECU 500 million for maturity on 12 February 1998. ECU 300 million for maturity on 14 May 1998. 3. All tenders must be made on the printed application torms available on request from the Bank of England. Completed application forms must be lodged, by hand, at the Bank of England, Customer Settlement Services,

Threadnesdle Street, London not later than 10.30 a.m., London time, on Tuesday, 11 November 1997. Payment for Bills allotted will be due on Thursday, 13 November 1997. 4. Each lender al each yield for each maturity must be made on a saparate application form for a minimum ot ECU 500,000 nominal. Tenders above this minimum must be in multiples of ECU 100,000 nominal.

5. Tenders must be made on a yield basis (calculated on the basis of the actual number of days to maturity and a year of 360 days) rounded to two decimal places. Each application form must state the maturity date of the Bills for which application is made, the yield bid and the amount tendered for.

6. Notification will be despatched on the day of the tender to applicants whose tenders have been accepted in whole or in part. For applicants who have requested credit of Bilts in global torm to their account with ESO, Euroclear or CEDEL, Bills will be credited in the relevant systems against payment. For applicants who have requested definitive Bills, Bitts will be available for collection at Customer Settlement Services, Bank of England after 1.30 p.m. on Thursday, 13 November 1997 provided cleared funds have been credited to the Bank of England's ECU Treasury Bitts Account No. 59005516 with Lloyds Bank Plc, Bank Relations, St George's House, PO Box 787, 6-B Eastcheap, London EC3M 1LL. Dafinitive Bitts will be available in amounts of ECU 10,000, ECU 50,000, ECU 100,000, ECU 500,000, ECU 1,000,000, ECU 5,000,000 and ECU 10,000,000 nominal.

7. Her Majesty's Treasury reserves the right to reject any or part of any lender.

B. The arrangements for the tender are set out in more defail in the Information Mamorandum on the UK Government ECU Treasury Bill programme issued by the Bank of England on behalf of Her Majesty's Treasury on 28 March 1989, and in supplements to the Information Memorandum. All tenders will be subject to the provisions of the Information Memorandum (as supplemented) and to the provisions of this notice.

9. The ECU 50 million of Bills to be allotted directly to the Bank of England for the account of the Exchange Equalisation Account will be for maturity on 14 May 199B. These Bills may be made available through sale and repurchase transactions to the market makers listed in the Information Mamorandum (as supplemented) in order to

10. Copias of the Information Memorandum (and supplements to it) may be obtained at the Bank of England. UK Government ECU Treasury Bits are issued under the Treasury Bits Act 1877, the National Loans Act 1968 and The Treasury Bills Regulations 1968 as amended.

Bank of England

### COMMODITIES AND AGRICULTURE

## EIU sees volatile period for zinc

Strong global demand coupled with a big supply deficit in the run up to 2000 will ensure price volatility for zinc, according to a report from the Economist Intelligence Unit.

The final quarter's report on industrial raw materials, however, and 2.1 per cent in 1999. Now at says that prices for other base met- 21.6m tonnes, world production of als are likely to stabilise and even fall over the same period.

zinc in 1997 is forecast to be about 4 duction and fresh smelters come onper cent up on 1996. While zinc con-stream, taking advantage of cursumption growth rates will dip in rently abnormally low stocks, now 1998, by 1999 "refined zinc demand will be ahout 850,000 tonnes higher against 78 days in 1994.

than it was in 1994, implying average annual growth of almost 3 per have a significant impact on the outcent over the five-year period". Simultaneously, decline in global stocks will total 1.1m tonnes.

will have grown by 4.6 per cent in 1997, slowing to 3.2 per cent in 1998 aluminium is set to increase by 4.6 all over the same period. per cent in 1998 and by 2.7 per cent in 1999, as idle plants re-start prodown to about 50 days' consumption

high-cost domestic producers and prevent import dependence".

While the physical market in nickel has been tight in 1997, this will ease in 1998, because of rising output from new mines. In spite of a demand - lowering exports to the west - this higher global ootput will ensure a growing aurplus into 1999.

look for copper, the EIU says "buy- cast of global consumption growth ing by the SRB confused the mar- to 23 per cent in 1997, with 60 per ket" in 1997, and that the SRB will cent of that increase attributed to World aluminium consumption act as a buffer stock operator to non-OECD countries. It predicts "the "keep prices from falling below 90 market will be well supplied in 1998 cents a pound, in order to protect its and 1999" and says that total OECD industry stocks were some 2.43bn barrels at the end of July. "over By Robert Corzine 100m barrels higher than in 1995".

It adds: "Glohal supply, led by braq's return to the oil market and by further growth in non-Opec proprojected recovery in Russian duction, will run ahead of demand...in 1999 the market will continue in surplus, pushing prices

### Iraq fears continue to depress oil prices

MARKETS REPORT

Crude oil prices were flat to lower yesterday as traders awaited more definitive news about the latest confrontation between Iraq and the United Nations.

The price of the bellwether Brent Blend for December delivery was quoted at \$19.88 a barrel in late trading on London's International Petroleum Exchange, 7 cents down on Monday's close.

Although Iraqi oil represents a fraction of total world oil demand, any interraption in its experts of 600,000 barrels a day or so could have a big infinence on prices in the run up to

the northern winter. Meanwhile British Petroleum yesterday predicted continuing volatility in oil prices. It also said there were no signs so far that currency turmoil in Asia and stock market uncertainty around the world was having a "material" impact

on global oil demand. The recent slide on coffee futures on the London International Financial Futures Exchange halted vesterday. but exceptionally thin trading volume of just 2,713 lots disguised the otherwise jittery mood of the exchange. The January contract hit \$1,500 but failed to cling on to it, closing \$29 np at \$1,499 a tonne, Cocoa fell further, the March future closing at £1,045 a tonne, £11 lower, on continuing news from the Ivory Coast

of good harvests. On the London Metal Exchange most base metals ended weaker, though tin was ectively traded, ranging more than \$100 through the day, Three months tin closed \$75 higher, at \$5,615 COMMODITIES NEWS DIGEST

### Vietnam upbeat on rice harvest

Two of Vietnam's most important soft commodities coffee and rice - have eluded the worst effects of typhoon Linds, which at the last count had caused the deaths of 132 people and the disappearance of as many as 4,000 fishermen off its south coast.

Vietnam is the world's second biggest exporter of rice with an estimated 2.56m acres of paddy fields in the crucial Mekong Delta. The summer autumn crop, which recently completed harvesting, produced 6m tonnes of unmilled rice, 0.5m tonnes less than in 1996, potentially jeopardising earlier hopes of exporting 3.7m tonnes this Paddy fields planted with the more important, recently-

planted winter-spring crop (due to be harvested in Febru-ary-March 1998), have been flooded. But officials say it is sufficiently early in the season that replanting can be car-ried out and the final crop may still meet earlier predictions of being 800,000 tonnes bigger than this year's. Coffee plantations have also apparently escaped serious damage, the typhoon having hy-passed the central high-lands, responsible for some 60 per cent of the country's

■ WHEAT

coffee production.

### Uzbekistan ignores Gafta ruling

The government of Uzbekistan has failed to pay nearly \$11m it owes to Romak, a Geneva-based international grain trading company, for wheat delivered last year, despite an arbitration award in Romak's favour by the Grain and Feed Trade Association (Gafta) in London. Representations by Credit Suisse, which provided the export finance, and Swiss diplomats in Tashkent have met with no success. The Uzbek authorities have refused

all public comment. Romak said yesterday that Uzbekistan was flagrantly ignoring its international commitments by refusing to honour the arbitration award, which It is hound to do as a signatory of the 1958 New York convention on interna-

tional arbitration awards. Romak's experience was a warning to others, the company said, noting that an international conference on Doing Business in Uzbekistan is being held tomorrow and Friday in London with top officials from the Uzbek gov-

The unpaid hill relates to Romak's delivery of about 40,600 tonnes of Kazakh wheat in summer 1996 to a stateowned trading company, Uzdon. The shipment, necessitated by the failure to deliver of a now-bankrupt Uzbek company, Odil, was guaranteed by the Uzbek government. Uzdon subsequently claimed that Romak's contract was

not with Uzdon but with Odil, which foundered after receiving an \$8.1m loan from the Uzbek National Bank to purchase wheat that was never delivered.

Rejecting this argument, Gafta in August awarded Romak \$10,8m in settlement of the contract plus interest for late payment.

REALS.

(1) 图 (1) 图 (2)

Comments and press releases about commodities coverage can be sent by e-mail to international companies@ft.com

### CFTC turns focus on agricultural options

without a few fights.

This week, the Commodity ciation comments. Futures Trading Commission, the futures industry regulator, has unveiled proposals which would permit farmers, processors, elevator operators and the like to buy or seli customised options on many agricultural commodities, without having to go through one of the official futures exchanges.

For example a farmer enthused by the price of subsidy programmes, and wheat but wary of the weather outlook - could enter an option agreement with his local grain elevator. In exchange for paying a premium to the elevator operator, this could give him the right, but not the obligation, to deliver grain at a negotiated price at a specified future date.

Supporters say that approval for such instruments would simply put the farm sector on a par with other commodity-hased industries. Metal producers and energy operators have used trade options for years, notes the Washington-based National Grain and Feed Association.

"Agriculture is the only

coming to the US like these are not allowed. farm sector, but not We don't believe it is somehow less capable," the asso-

> gramma" - would also be in the spirit of the increasingly deregulated environment in tagged the "freedom to farm of millions of dollars. act") is progressively doing away with the federal government's most expensive giving farmers flexibility coming up for grabs.

over what they produce. Advocates of trade options claim that such tools are necessary if more entrepreneurial farmers are to adequately manage their risks. "It is imperativa that tha CFTC act as soon as possifarmers to manage the price and production risk of the 1998 crop, the third to be produced under the new farm law," says the NGFA.

But not everyone is enthusiastic. The use of custombanned in 1936 because of the mid-1990s the industry "hedge-to-arrive" contracts.

regulation may be industry for which options Developed in the mid-1990s, these were essentially pri-vate forward contracts which required physical delivery at a set price, but with the date variable. When grain prices surged, grain elevators - who had sold futures to offset the inherent risk - were left facing large losses. The legality of such the US agricultural sector. contracts was questioned.

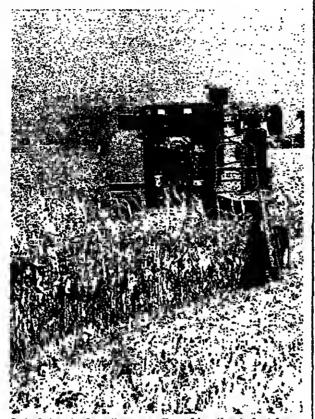
The 1996 farm law (usually and losses put in hundreds

Moreover, the futures exchanges are hardly delighted at the prospect of a further slice of business

The Chicago Board of Trade emphasises that it does not oppose "ag-trade" options per se. But it stresses that changes to the current restrictions should "contain all the appropriate safeguards", including meahle ... at least in time for sures to ensure price transparency, strict clearing arrangements, and "proven self-regulation\*,

The CFTC proposals throw a few sops in the exchanges' direcised agricultural options was tion. The regulator says it will remove any prohibition fraud and other abuses. In on the offer and sale of agri- to take potentially costly cultural options, for physical also ran into problems with delivery, on designated exchanges - allowing them

MHEAT LIFFE (100 tonnes: 2 per torme)



Out of step: trade options are allowed in other industries to devise their own products. CFTC proposing a fairly

Out in the farm sector itself, opinion seems divided on whether such products would be a useful addition to the array of risk management tools, or an invitation

come so far, the chance of a revision to the 61-year-old ban on agricultural options before 1997 ends is looking

Even the NGFA concedes that views differ. With the

COCOA LIFFE (10 turnes; E/torne) · \* ·

Nikki Tait a tome.

hrief comment period, some

dehate can he expected in

coming weeks. But having

MEAT AND LIVESTOCK

E LIVE CATTLE CME (40,000ths; cents/bal

JOTTER PAD

CROSSWORD No.9,524 Set by GRIFFIN

fires blanks (8.6) 9 Two articles on "The Mum-

after five (6)
14 Got rid of throng running inside fortress (10) 18 Appeared to have finished before being missed (10) 22 Grace enters when Richard

is hiding (6) 23 Direct her to turn into South Street (8) 24 Studied starting price before broadcast (6) 25 Unaware I permit no inter-

26, 27 Rushed inside with replacement but he'd stopped straight away

1, 15 it's logical to assume bears soon tear plastic (6,2,6) Wanting some crab a customer uses this counter (6) 3 Volunteers' belt needs one

motorway appointme 6 Break finger in crash (8) 7 Twitter on about one being a very large number! (8) 8 Against introducing the French-made drink (8) 11 Sceptical bnt prepared to go into the performance (8)

12 Musician 1 love left bone

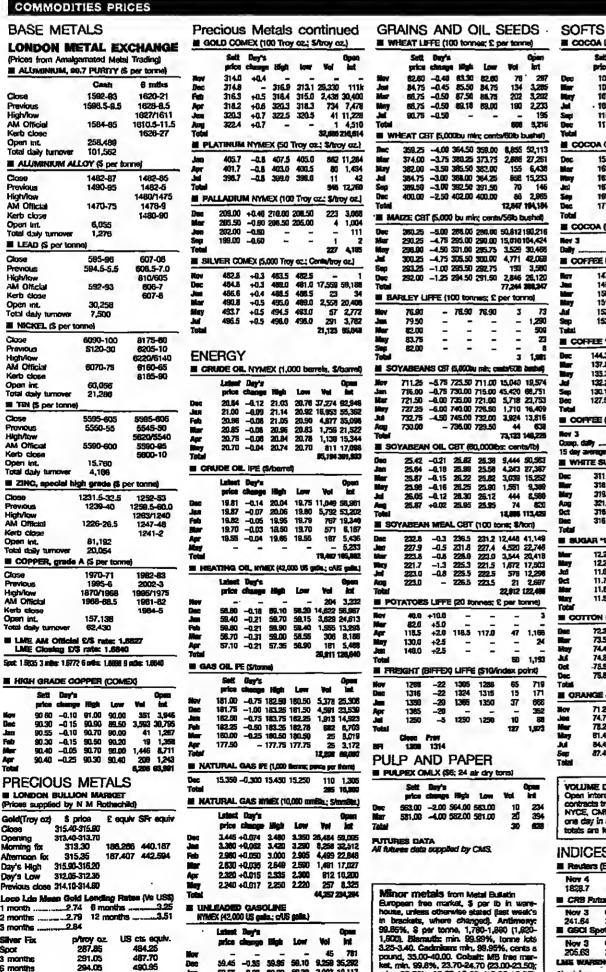
13 Capital could be open to change (10)

15 See 1 down

16 It shows you're unhappy rent has to fall (8)
17 Picket instructed to grab jam (8)
19 Clasp brother and ring companion (6)

20 Smear union leader found in bed with Jack (6). 21 Said to be completely satisfied with time inside (6) Solution 9,523

# MCOME THUCKSET HE G A S T MOKERING MERUN R O O H P O O MANL AUGITIONEER J S C I E N ATCHED ACCEDE



300.60

\$ price 313-316

**Gold Coin** 

498.25

Sett Day's Open	Sett Day's Open	Sett Day's Dpon	Suit Day's . Open Price change Mak Low Yol lot
price change High low Vol but 314.0 +0.4	price change 10gh Low Vol left New 62.60 -0.40 63.30 82.60 78 287	Dec 1026 -4 1028 1012 1,258 44,436	Price change Right Low Yel but Dec 88.975-0.150 67.300 66.750 4.840 38.797
3148 - 316.9 313.1 29,330 111k	Jan 84.75 -0.45 85.50 84.75 134 3,285	Mar 1051 -5 1053 1038 5,193 54,321	Pat 58,900 +0.050 SR.075 58,825 2,020 25,444
316.3 +0.5 318.4 315.0 2,438 30,400 318.2 +0.6 320.3 318.3 734 7,478	Mar 66,75 -0.50 87.50 86,75 202 3,202 May 66,75 -0.50 89,18 69,00 190 2,233	Mary 1070 -5 1074 1056 964 23,380 Jul 1087 -4 1068 1076 305 9,564	Apr 72,575 +0,050 72,550 72,100 584 14,457 Jan 89,550 +0,025 69,950 69,600 418 10,707
320.3 +0.7 322.5 320.5 41 11,228	₩ 90.75 -0.50 195	Sup 1104 -4 1106 1093 681 16,720	Aug 85.850-0.075 89.900 89.850 50 3.607
322.4 +0.7 1 4,510 32,686,216,614	Total 508 5,216  WHEAT CET (5,000bu min; cents/50b bushe)	Dec 1118 -3 1120 1107 1,288 21,089 Yetal 11,118 195,182	Oct 71,700 -0.300 71,700 71,700 18 1,164 Total 7,911 94,176
ATINUM NYMEX (50 Troy oz.; \$/troy oz.)	Thec 359.25 -4.00 364.50 359.00 8.855 52.113	M COCOA CSCE (10 tornes; S/tornes)	II LEAN HOGS CHE (40,000bs; certs/fbs)
405.7 -0.8 407.5 405.0 862 11,284	Mar 374.00 -3.75 380.25 373.75 2,886 27,261	Dec 1589 +11 1594 1583 8,463 24,983	Dec 62.125+0.175 62.400 61.360 2.880 18,883
401.7 -0.8 403.0 400.5 80 1.434 398.7 -0.8 389.0 398.0 11 42	May 382.00 -3.50 385.50 382.00 155 6,438 Jul 384.75 -3.00 388.00 364.25 858 15,233	Mar 1630 +12 1635 1604 7,141 34,804 May 1655 +12 1658 1630 1,935 13,883	Feb 62,825 +0.350 82,950 61,800 2,096 9,550 Apr 58,275 +0.450 58,350 58,850 505 4,190
546 12,760	Sep 389.50 -1.00 392.50 391.50 70 146	Jel 1676 +12 1579 1553 28 3,952	Jun 66,400+0.025 66,700 65,900 309 2,872
LLADIUM NYMEX (100 Troy oz.: \$/troy oz.)	Tree 400.00 -2.50 402.00 400.00 86 2,965 Total 12,847 194,184	Sep 1995 +14 1700 1700 15 4,828 Dec 1716 +18 39 .8,895	Am 63.175 -0.325 63.600 62.650 14 233
209.00 +0.40 270.00 208.50 223 3,068 205.50 -0.60 208.50 205.00 4 1,004	* MAIZE CRT (5,000 bu min; conta/58% bushoft	Total 17,851 102,863	Total 5,898 37,210
202.00 -0.50 111	Oec 260.25 -5.00 266.00 266.00 50.812 190.216	E COCOA (ICCO) (SDR's/tonne)	PORK BELLIES CME (40,000 be, cents/lbs)
199.00 -0.60 1 2	May 290.25 -4.75 295.00 290.00 15,010 164,424 May 298.00 -4.50 301.00 295.75 3.529 30,466	Daily	Feb 84.725 - 64.800 63.500 1,138 6,043 Mar 63.975 -0.475 64.250 63.300 103 912
LVER COMEX (5,000 Tray oc.; Centertray oz.)	JE 300.25 -4.75 305.50 300.00 4,771 42,068	COFFEE LIFFE (5 tonnes; \$/tonne)	May 64.200-0.125 64.500 63.550 2 205
482.8 +0.3 463.5 452.5 - 1	Sep 293.25 -1.00 295.50 292.75 193 3,580 Owe 292.00 -1.25 294.50 291.50 2,846 26,120	New 1470 +25 1470 1445 327 2,532	Aug 81,500 -0.125 65.200 64.750 3 159 Aug 81,500 -0.450 - 62.250 - 10
484.8 +0.3 489.0 481.0 17,559 59,188 486.6 +0.4 488.5 488.5 23 34	Tetal 77,244 \$88,347	Jan 1499 +29 1500 1466 1,825 25,592 Mar 1506 +24 1608 1480 950 8,673	Tetal 1,246 7,441
490.8 +0.5 495.0 489.0 2,558 20,408	BARLEY LIFFE (100 torus); £ per torne)	May 1513 +23 1494 1487 71 1,974	LONDON TRADED OPTIONS
493.7 +0.5 494.5 493.0 57 2,772 496.5 +0.5 496.0 496.0 291 3,782	Nov 76.90 - 78.90 76.90 3 73 Jan 79.50 1,290	Auf 1520 +22 1520 1496 22 661 Sep 1530 +22 382	Strike price \$ tonne — Calls Puts —
21,123 95,048	Mar 82.00 509	Tatal 3,193 39,034	E ALUMENIUM :
CDCV	May 83.75 23 Sep 82.00 8	COFFEE 'C' CSCE (37,500tbs; cents/be)	(98.7%) LME Dec Mar Dec Mar
ERGY	Total 3 1,981	Dec 144.30 +0.20 144.80 142.50 6,041 11,513 Mar 137.85 +0.90 138.25 138.30 2,031 8,403	1600 44 82 29 48 1825 31 89 41 58
RUDE OIL NYMEX (1,000 berrels, \$/barrel)	M SOYABEANS CET 5,000 to min; contartote bestud	May 135.35 +1.30 135.50 133.50 205 2,821	1650 21 57 56 71
Letent Day's Open price change High Low Yel Set	Mov 711.25 -5.75 725.50 711.00 15,040 19,574 Jan 716.00 -0.75 730.00 715.00 45,420 66,751	Jul 132.25 +0.75 132.59 130.75 139 1,922 Sep 130.15 +0.35 130.25 120.00 72 1,019	E COPPER (Grade A) LME Dec Mar Dec Mer
20.84 -0.12 21.03 20.76 37,274 92,946	Mar 721.50 -0.00 735.00 721.00 5,718 23,753 May 727.25 -6.00 740.00 726.50 1,710 16,409	Dec 127.50 +0.45 125.00 126.75 96 796 Tatal 8.625 25.692	1950 73 107 96 73
21.00 -0.09 21.14 20.92 16,953 55,362 20.96 -0.08 21.05 20.90 4,877 35,096	Jul 732.75 -4.50 745.00 732.00 3,924 13,816	COFFEE (ICO) (US cente/pound)	2000 47 83 60 87 2050 26 83 91 127
20.85 -0.08 20.96 20.83 1,758 21,522 20.75 -0.08 20.84 20.78 1,130 15,344	Aug 730.00 - 736.00 729.50 44 638 Total 73,123 149,225	Rer 3 Pres, day	M COFFEE LEFFE Jan Mar Jan Mar
20.70 -0.04 20.74 20.70 811 17,098	SOYABEAN OIL CET (60,000bs: cents/tb)	Comp. daily 110.93 112.57 15 day average 117.00 118.03	1400 181 130 - 31 1450 131 92 - 43
\$5,794 305,923	Dec 25.42 -0.21 25.82 25.38 9,444 50,563	WHITE SUGAR LIFFE (50 tormes; \$/torme)	1500 81 63 - 64
NOE OIL IPE (S/berret)	Jan 25.64 -0.18 25.89 25.58 4.243 27,387 Nar 25.87 -0.15 26.22 25.82 3,039 15,252	Dec 311.1 -2.7 \$14.2 311.0 1,423 10,806	1050
Latest Day's Open price change High Low Yol int	May 25.98 -0.16 26.25 25.90 1.551 9.389 Jul 26.05 -0.12 28.30 26.12 444 6.580	Mar 318.2 -2.3 319.0 316.0 1.185 16.379 May 319.2 -1.5 319.5 318.9 357 8,189	1075 5 45 54 69
19.81 -0.14 20.04 19.75 11,949 58,981	Amp 25.87 +0.02 25.95 25.95 74 820	Ang 321.6 -1.5 322.0 321.0 25 2,485	1100 2 36 76 87
19.87 -0.07 20.06 19.80 5,792 53,202 19.82 -0.05 19.95 19.79 767 19.340	Total 18,896 113,429 E SOYABEAN WEAL CET (100 tons; \$/ton)	Oct 316.7 -2.2 316.6 316.5 300 3,467 Dec 316.5 -0.8 140	IPE Dec Jan Dec Jan
19.70 -0.03 12.50 19.70 571 6.167 19.55 -0.04 19.65 18.55 187 5.436	Dec 232.8 -0.3 236.5 231.2 12.448 41,149	Total 3,274 35,549 BI SUGAR "11" CSCE (112,000/bs; cents/bs)	1950
5,233	Jan 227.9 -0.5 231.8 227.4 4.520 22,746	12.29 -0.14 12.43 12.2616.680 119k	2050 16
19,407 165,002 ATTING OIL, HYMEX (42,006 US galls; cAS galls;	War 223.8 -0.8 228.0 223.0 3,544 20,418 Way 221.7 -1.3 225.3 221.5 1,672 17,503	May 12.20 -0.11 12.30 12.17 4.327 28,479	LONDON COOT MADVETO
Latest Day's Geom	Jul 223.0 -0.8 225.5 222.5 578 12,298 Aug 223.0 - 226.5 223.5 21 2,697	3ed 11.00 -0.14 12.03 11.90 2.550 20,533 9ed 11.73 -0.11 11.88 11.77 1,231 21,897	LONDON SPOT MARKETS  E CRUDE OIL FOB (per bertel) +or-
price change that Low Yel lot	Total 22,912 122,496	Mar 11.83 -0.10 11.71 11.88 13 5,882	
204 3,232 58.80 -0.18 89.10 58.20 14,622 56,967	POTATOES LIFFE (20 tonnes; & per tonne)	Wary 11.580.10 11.57 11.85 50 613 Total 24,841 187,052	Brent Ellend (dated) \$19.16-9.18 -0.280
59.40 -0.21 59.70 59.15 3,629 24,613 59.80 -0.21 59.90 59.40 1,555 13,288	Nor 40.0 +10.0 3 Nor 82.0 +5.0	COTTON NYCE (50,000lbs; cents/fbs)	W.T.L \$19.88-9.85 -0.280 W.T.L \$20.82-0.84w -0.280
58.70 -0.31 59.00 58.55 306 8,186	Apr 118.5 +2.0 118.5 117.0 47 1,166 May 130.0 +2.5 24	Date 72.38 -0.39 72.70 72.10 8,121 45.911 Nam 73.58 -0.25 73.75 73.32 1,957 18.018	OIL PRODUCTS HWE prompt delivery OF (loune)
57.10 -0.21 57.35 56.90 181 5,488 20,811 126,640	Jun 140.0 +2.5	May 74.40 -0.10 74.50 74.05 551 10,290 Jul 74.86 -0.14 74.95 74.70 931 10,097	Premium Gesoline \$202-204 -2 Ges Of \$183-185 -1.5
S OIL PE (S/torne)	Total 50 1,193  FREGHT (BIFFE) LIFFE (\$10/index point)	Oct -75.50 -0.10 75.55 75.50 48 823	Heavy Fuel OII 8102-164
Sett Day's Open	Nov 1298 -22 1305 1288 65 719	Dec 75.80 -0.19 76.00 75.75 557 10.668 Total 12,181 96,138	Naphths \$196-197 -1 Jet fuel \$202-204 -1,5
price change High Low Vol let. 181.00 -0.75 182.50 180.50 5.378 25.308	Dec 1316 -22 1324 1315 15 171 Jun 1350 -20 1385 1350 37 668	E GRANGE JUICE NYCE (15,000bs; cents/bs)	Diesei \$192-194 -1.5 MATURAL GAS (Pence/therm)
181.75 -1.00 183.25 181.50 4,591 23,539	Apr 1385 -20 352	Nov 71.20 +2.30 71.50 65.50 647 1,759 Jan 74.75 +2.55 75.40 72.05 1,755 20.840_	
182.25 -0.50 183.25 182.75 682 8,703	Jul 1250 -5 1250 1250 10 88 Total 127 1,973	Mar 75.20 +2.65 78.80 75.50 601 11,765	Bacton (Dec) 15.40-15.50 -0.250 Patroleum Argus. Tal. London (1771) 359 8792
180.00 -0.25 180.50 180.50 25 8,019 177.50 - 177.75 177.75 25 3,172	Clean Prov BFI 1308 1314	May 81.45 +2.65 81.45 78.90 183 2.876 Jul 84.45 +2.65 9 1,189	■ OTHER
12,200 80,000	PULP AND PAPER	Sep 87.45 +2.65 43 755 Total 3.449 31.907	Gold (per troy ozj. \$315.65 +1,30 Silver (per troy ozj. 488.00c +2.00
TURAL GAS FE (1,000 ferrer, perce per from)	PULPEX OMLX (\$6; 24 air dry tons)	1000	Pletinum (per troy oz.) \$408.00 +1.00
15.350 -0.300 15.450 15.250 110 1,305 285 18,800	Sett Day's Open	VOLUME DATA	Palacium (per troy cz.) \$208.00 . Copper 98.0c
TURAL GAS WHEX (10,000 mmEta; S/mmEta)	price change Flight Love Vol. int Dec 563.00 -2.00 564.00 563.00 10 234	Open interest and Volume data shows for contracts traded on COMEX, NYMEX, CET.	Lead (US prod.) 45.00c
Letest Day's Open	Mar 581,00 -4.00 582,00 581.00 20 394	NYCE, CME, CSCE and IPE Crude Oil are one day in arrears. Volume & Open interest	Th (Kesia Lumpur) 18.41r Th (New York) 259.5
price change liigh Low Yel lot	Tetal 30 628	totals are for all traded months.	Cattle (live weight) 96.24p -0.35"
3.445 +0.074	FUTURES DATA All futures data supplied by CMS.	INDICEC	Sheep (live weight) 97,87p -4.50* Figs (five weight) 76,55p +0.08*
2,980 +0.050 3,000 2,905 4,499 22,848 2,630 +0.035 2,649 2,590 1,481 17,027	The source data department by Commit	INDICES	Lon. day sugar (raw) \$292,70 +0.20 .
2.320 +0.015 2.335 2.300 812 10,200		Nev 4 Nov 3 menth ago year ago	Lon. day sugar (wte) \$308.50 -0.10
2.240 +0.017 2.250 2.220 257 8.325 44,357 234,284	Milnor metals from Metal Bulletin	1828.7 1821.7 1887.3 1853.1	Barley (Eng. feed) Unq Maize (US No3 Yellow) \$108,00
		■ CRB Putures (Base: 1967 = 100)	Wheat (US Dark North) Unq
	European free market, \$ per lb in ware-		
LEADED (SASOLINE EX (42,000 US galls.; c7US galls.)	Buropean free market, \$ per to in ware- house, unless otherwise stated (last week's	Nov 3 Oct 31 month ago year ago 241.64 241.04	Rubber (Dec) \$4,500 Rubber (Jan) \$4,500
LEADED CASOLINE EX (42,000 US gails.; c/US gails.)	European free market, \$ per to in ware- house, unless otherwise stated (last weak's in brackets, where changed). Antimony: 99.85%, \$ per tonne, 1,780-1,890 (1,820-	241.64 240.04	Rubber (Jan)♥ 54.50p Rubber (KL RSS No1) 282.0z -2.0
LEADED CASCLINE EX (42,000 US gails.; c/US gails.)  Latest Day's Open price change flight Low Vol int	European free market, 3 per to in ware- house, unless otherwise stated (ast weak's in brackets, where changed). Antimony: 99.85%, 3 per tonne, 1,780-1,880 (1,820- 1,900). Blanautic min. 99.95%, comb at 3.25-3.40. Cadmissrs min. 99.95%, cents a	241.64 240.04 = 100; E GSCI Spot (Base: 1970 = 100; Nov 3 Oct 31 month ago year ago	Rubber (KL RSS No1) 292.0z -2.0 Coconut Oil (Phill) 605.02.5z +2.5
LEADED CASOLINE EX (42,000 US gails.; c/US gails.)	European free market, \$ per to in ware- house, unless otherwise stated (last week's in brackets, where charged). Antimony: 99.85%, \$ per tonne, 1,760-1,690 (1,620- 1,800). Blamartic min. 99.95%, forme lots 3.25-3.40. Cadmitus: min. 99.95%, cents a pound, 35.00-40.00. Cobait: MB this mar-	241.64 240.04	Rubber
LEADED CASOLINE EX (42,000 US gails.; c/US gails.)  Latest Duy's price change Bigh Low Vol int 59.45 -0.35 59.95 56.10 9259 95.292 59.65 -0.23 60.00 59.30 2.907 19,117	European free market, 3 per to in ware- house, unless otherwise stated (ast weak's in brackets, where changed). Antimony: 99.85%, 3 per tonne, 1,760-1,880 (1,820- 1,500). Blamautis: min. 99.95%, cents a pound, 35.00-40.00. Cobait: MB free mar- ket, min. 99.8%, 23.70-24.70 (23.00-23.50; min. 99.3%, 18.60-19.00 (18.00-18.75).	241.64 240.04  III GSCI Spot (Base: 1970 = 100)  Nov 3 0ct 31 month ago year ago 25.63 208.15 207.54 203.75  LIME WARSHOULS STOCKS (towness)  Aluminium -2.375 to 739.275	Pubber (Jen)(P 54.50p 80.50p (AL RSS No.1) 292.0r -2.0 Coconut Oil (Phill)S 80.5.02.5z +2.5 Paim Oil (Halay),S 625.0z 625.0r 625
LEADED GASOLINE EX (42,000 US gails.; c/US gails.)  Latest Day's Open price change Righ Low Vol int	European free market, \$ per to in ware- house, unless otherwise stated (last weak's in brackets, where changed). Antimerge 99,85%, \$ per tonne, 1,760-1,960 (1,920- 1,900). Blamartin min. 99,99%, tonne lots 3,25-3,40. Cedanisms min. 99,95%, cents a pound, 35,00-40,00. Cobath: MB free mar- let, min. 99,8%, 23,70-24,70 (23,00-23,50);	241.64 240.04  III GSCI Spot (Rase: 1970 = 100)  Nov 3 Oct 31 month ago year ago 205.63 208.15 207.54 203.75  LHE WARSHOUSE STOCKS (towness)	Rubber (Jan)(P 54.50p Rubber (CL RSS No1) 292.0z -2.0 Cocorut Oli (Philis 505.02.5z +2.5 Paim Oli (Matay, S 525.0z 5410.0 Soyabeans (US) 5410.0 +7.0 Comon Outbook A' Index 77.5c Wooltops (64s Super) 403p
LEADED CASOLINE EX (42,000 US gaiss; c/US gaiss.)  Latest Duy's arice cleange Bigs Low Vol ht  59.45 -0.35 59.96 59.10 9.259 95.292  59.55 -0.23 80.00 59.30 2.907 19.117  59.90 -0.16 59.95 59.75 713 8,840  60.35 - 60.60 80.35 342 5,383  64.65 - 63.00 63.00 134 5,765	European free market, \$ per to in warehouse, unless otherwise stated (ast weaks in brackets, where changed). Antimony: 99.85%, \$ per tonne, 1,760-1,880 (1,820-1,500). Biamarks: min. 99.95%, cents a pound, 35.00-40.00. Cobatt: MB free market, min. 99.89%, 23.70-24.70 (23.00-23.50; min. 99.3%, 18.60-19.00 (18.00-18.75). Mercury: min. 99.95%, \$ per 76 to fissis, 140-150. Melybdenum: 3.50-3.70 (3.70-3.80). Selenium: min 99.5%, 2.00-3.00.	241.64 240.04  III GSCI Spot (Base: 1970 = 100)  Nov 3 Oct 31 month ago year ago 205.63 208.15 207.54 208.75  Line Warschouse: STOCKS (towns)  Aluminium -2.375 to 739.275  Aluminium alloy -280 to 47.540  Copper -675 to 340,475  Lead -325 to 115,000	Rubber
LEADED CASCURE EX (42,000 US galax; c/US galax)  Latest Day's Qualax; c/US galax;  parice change High Low Vol int  54.45 -0.35 59.96 59.10 9.259 35.292  50.55 -0.23 60.00 59.30 2.907 19.117  59.90 -0.16 59.95 59.75 713 8,840  60.35 - 60.60 80.35 342 5,333	European free market, \$ per to in ware-house, unless otherwise stated (last week's in brackets, where changed). Antimony: 99.85%, \$ per tonne, 1,780-1,890 (1,820-1,900). Blamath: min. 99.95%, forme lots 3.25-3.40. Cadaritass min. 99.95%, cents a pound, 35.00-40.00. Cobait: MB fine market, min. 99.8%, 23.70-24.70 (23.00-23.50); min. 99.8%, 18.60-19.00 (18.00-18.75). Mercury min. 99.99%, \$ per 76 to fissic, 140-150. Molybdenum: 3,50-3.70 (3,70-150. Molybdenum:	241.64 240.04  III GSCI Spot (Base: 1970 = 100)  Nov 3 Oct 31 month ago year ago 205.63 208.15 207.54 203.75  Like Warsenouse STOCKS (towns)  Aluminium alloy -280 to 47,540 Copper -675 to 340,475	Rubber (Jan)(P 54.50p Rubber (CL RSS No1) 292.0z -2.0 Cocorut Oli (Philis 505.02.5z +2.5 Paim Oli (Matay, S 525.0z 5410.0 Soyabeans (US) 5410.0 +7.0 Comon Outbook A' Index 77.5c Wooltops (64s Super) 403p

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	FINANCIAL TIMES WEDNESDAY NOVEM			INDS SERVICE			Offshore Funds
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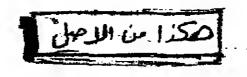
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LONDON SHARE SERVICE

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#### LONDON STOCK EXCHANGE

### Hong Kong dip erodes London's confidence

MARKETS REPORT

By Steve Thompson, **UK Stock Market Editor** 

Nerves in London's stock market were being tested again yesterday as Monday's strong performance by Wall Street was offset by another alide in shares on the Hong Koog market.

The 4 per cent fall in Hong Kong came in relative isolation many other far eastern stock markets such as Bangkok, Seoul and Manila closed up on the day but it sent shivers across European markets.

come in stronger after the 3 per ahead at 2,321.7.

cent rise in the Dow Jones Industrial Average on Mooday.

And with Wall Street succumbing to a bout of profit-taking in early trading yesterday after its near 300-point rise over the past two sessions, London's FTSE 100 index finished the day with a moderate loss of 9.0 at 4.897.4.

not carry over into the rest of the market, however. The second-liners never really looked uncomfortable, and the FTSE 250 settled not too far from its session high of 4,678.5, ending the day 11.2 up at 4.674.8.

They had been expected to made modest progress to close 1.5

Similarly, the FTSE Smallcap

Dealers, frustrated by the well with the turmoil since Big intensity of moves in recent ses- Bang Mark Two. One former sions but equally by the lack of marketmaker said his firm would volume, complained bitterly.

"It'a either feast or famine. We've not got to grips with the back its marketmakers and that new order-driven system. The big as a whole the marketmaking institutions are simply not put- system would probably have lost ting up enough commercial hids getting on for £40m. The losses in the leaders did and offers and the spreads are too wide," said ooe trader.

> the old marketmakers to make could rise in the near future. them prices in large sizes which, if it persists, will undermina tha new system."

that the new system had coped securities house.

probably have lost around £5m last week committing capital to

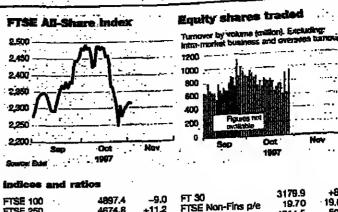
The feeling was that markets had still to contend with prob-"Volume is suffering and what lems in the far east and would makes it more difficult to take is also have to deal with the worry that the institutions are asking that rates in the US and the UK "The market's confidence has

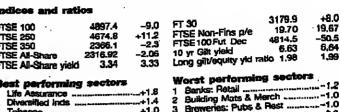
been eroded and it is not over yet hy any means," said the head Others pointed out, however, trader at one big European

The UK's monetary policy committee meets today to debate interest rate policy while the US Federal Reserve's open market committee sits next week.

Turnover in equities remained painfully thin. At 6pm, volume was 740m, although this figure was inflated by the 64m shares traded in Hartstone, a penny stock, which accounted for almost 9 per cent of the total. Non-FTSE 100 stocks accounted for 62 per cent.

Next, the high street retailer, was the best Footsle performer, reversing the previous day's showing, after one of the big US investment banks recommended





### Next rallies strongly

By Joel Kibazo, Martin Brice and Peter John

The market spotlight remained fixed on Next throughout the session as shares in the clothes retailer bounced sharply following a hroker recommendation and favourable press comment.

The shares, which fell 23 on Tuesday on concerns about current trading and inventory worries, recovered yesterday after Morgan Stanley recommended the stock. They ended the day as the best performing stock in the FTSE 100, up 47 or 6.8 per cent at 734p.

Julie Ramshaw, at Morgan Stanley, saw no reasons for the market's recent nervousness: "With the advent of the cold weather in October, apparel sales have improved and we continue to believe Next is one of the most restlient competitors in the retail sector."

On a value hasis. Morgan Stanley prefers Next to Marks and Spencer, which reported interim figures yesterday. Disappointment that the figures were at the bottom end of market expectations, together with active profit-taking, saw shares in the leading high street retailer surrender 10 to 600p. in spite of an upbeat analysts' meeting, several indi-

Zeneca dropped 40 to £18.55 on the order book as **ABN Amro Hoare Govett cut** the etock to "sell" from "overvalued" and cited concerns about the prospects

of key drugs.

Analyst Anthony Colletta said Zeneca's research and development pipeline was empty until 2001 and the company had only three products in Phase Two and Three development, compared with 41 for Glaxo and 30 for SmithKline Beecham.

Mr Colletta said the bid

premium, which came into the share price after the merger between Glaxo and Wellcome and between Ciba and Sandoz, had been slowly leeching away over the past 12 months, "Zeneca will never perform in a US league. It is partly an indusrating abould be more to 870n. aligned with that sector." he said. Consequently, he set a "fair value" on the stock of just £15.50. Zeneca is due to give an update on its R&D

pipeline on December 1. Glaxo Wellcome, meanwhile, recovered 29 to £13.09 as analysts argued that tha spill, which followed a warning by Warner Lambert of the US on its diabetes product, was overdone. Smith-Kline Beecham was steady at 560p.

Thames Water sank close to the bottom of the day's Footsie performers as analysts seized oo results as an opportunity to point out the stock's relative outperform-

The company posted profcated they would be lower- its before exceptionals of

ing full-year profit forecasts. £202m for the first half, within forecasts and up from £188m. It raised its dividend 11.6 per cent to 12.5p per

> The dividend increase was pared to last week's payout from Anglian Water, which was up 12.5 per cent. Charterhouse Tilney was

among the list of brokars cent gain in the value of who noted Thames's strong outperformance. Kevin Lapwood of Charterhouse said: "At the start of trading, Thames had outperformed the market by 26 per cent over the past 12 months and the sector hy 15 per cent. I agree that the stock had some catching up to do but it has gone too far."

Severn Trent. Thames fell 37 to 873p. Anglian was steady trial conglomerate and the at 790p and Severn gained 7

The news that Rolls-Royce had secured its first order for Trent engines from Air Canada, worth up to \$450m (£270m), left tha market unimpressed. The shares lost seen as disappointing com- a penny at 215p, in a decline said to be due to fears of the long-term effects of sterling'e

> sterling, and up to £3.5m for each one percentage point move in interest rates, although it hedges much of its exposure. Senior Engineering hosting a three-day visit by brokers and analysts to its

strength. The company suf-fers a £5m loss for each one

US operations, and first indications seem to be bullish for the company. Panmure Mr Lapwood recommended Gordon has changed its a switch from Thames into stance on the stock from "hold" to "huy," and is a buyer up to 200p. However, ahead of the main flow of oews from the visit, the

FT 30 INDEX

Nov 4 Nov 3 Oct 31 Oct 30 Oct 29 Yr ago "High "Low 3179.8 3171.9 3134.0 3122.8 3167.9 2781.0 3430.3 2868.8 3.54 3.55 3.60 3.61 3.56 4.11 4.22 3.29 20.78 20.89 20.44 20.38 20.66 16.80 22.83 15.80 20.47 20.41 20.16 20.09 20.38 16.84 22.02 15.71 lattor: high 3430.3 16/1097; low 49.4 26/06/40. Barro Date: 17/26. FT 30 hourly changes

Open 9.00 10.00 11.00 12.00 13.00 14.00 15.00 16.00 High Low 3173.0 3174.6 3176.2 3177.0 3176.8 3178.0 3176.5 3181.6 3167.5 3195.0 3167.1

Nov 4 Nov 3 Oct 31 Oct 30 Oct 29 Yr ago 43,899 47,870 44,706 55,562 77,192 37,653 - NA 2232,8 2306,3 3172,5 1448,6 - NA 38,504 44,940 71,611 28,280 - NA 638,8 617,7 962,4 476,3

M London market data

Rices and falls"		52 Week highs a	and lows	LIFFE Equity options			
Total Rises	845	Total Highs	35	Total contracts	16,139		
Total Falls	709	Total Lows	85	Cells	6,032		
Same	1,500			Puts	11,207		
Nov 4 Data base	of on Eq	uity shares listed o	n the Lor	ndon Share Service.			

stock eased 11/4 to 1631/4p. Wellman, the design engineer, gained 6% to 37p after It said it was in talks that

might lead to an offer. Racal Electronics shed 3 to 218%p on the back of a report that Deutsche Telekom, Telecom Italia and AT&T had said they were not interested in buying the company's telecoms arm. However, volumes were

An 11 per cent rise in third-quarter profits failed to help BP remain in the blue. The profit after tax of £691m was abova analysts' forecasts and higher than the previous figure of £650m. A strong increase in refining and marketing profits more than offset the impact of shares were flat at 5%p. lower oil prices. The overall results were towards the top of expectations but there

run saw the shares end 10% off at 883p. United Assurance rose 111/2 to 502p as the departure of the insurance company's chief executive continued to raise hopes of a re-rating of

was a feeling that earnings

could mark time next year.

Profit-taking after a strong

the shares Sun Life & Provincial added 17 at 382p on the order book, as NatWest Securities lifted the stock to "hold" from "reduce". Sun Life has underperformed the market by 11 per cent, and the rest of the life assurance sector by 14 per cent, since Nat-West downgraded the stock

in September. Insurance broker Willis Corroon held relatively firm despite news that headline profits fell 20 per cent to £68.1m because of sterling's strength, competition and the effect of a series of disposals. A statement that it was hopeful of hitting yearend profit targets cushioned the slide to 21/2, leaving the

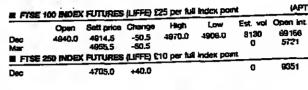
506p with suggestions of sup-

port from BZW, which issued 10m American-style call warrants on the stock. Warrants are essentially options to buy stock at a later date and issuers often hedge by buying underlying shares in the market. One warrant con-

trols ona share. Hartstone, the leather goods and hosiery group, was the most heavily traded stock as one institution sold a 10 per cent stake. The trading screens suggested the shares were crossed at 5% and the company believed the shares were sold to a number of institutions. The biggest recorded shareholders are Schroders, with just under 20 per cent, and PDFM, with 13 per cent. Tha

**FUTURES AND OPTIONS** 

Support Service



FITSE 100 INDEX OPTION (LIFFE) ("4888") \$10 per full index point Calls 2,056 Pags 2,974

■ EURO STYLE FISE 100 INDEX OPTION (LIFFE) £10 per full index point 4725 4776 4825 4875 4925 4875 5025 5075

Nov 260 94 223½107½ 193 127 193 147 126 1891½111½194½ 81½ 225 71 254

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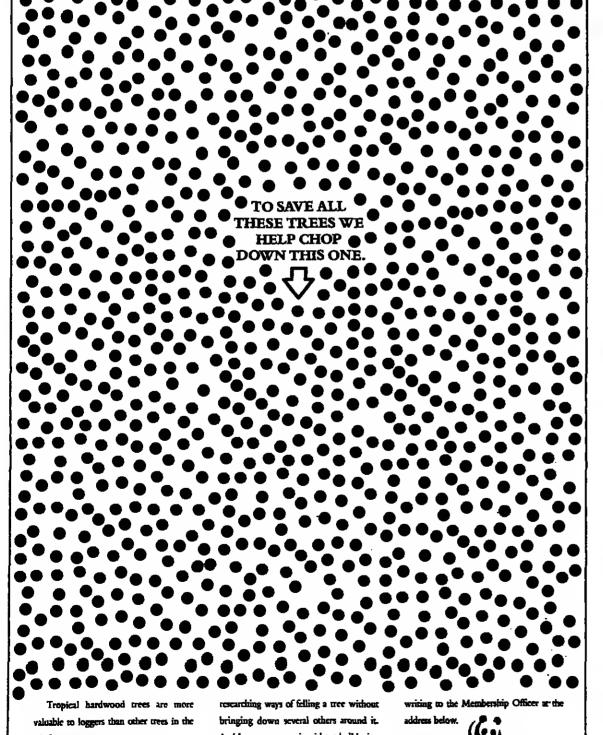
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Ostb 1 852 Page 5.055 1 Britishin Internation Calls 1,652 Pate 6,035 \* Underlying Index value. \*
† Long dated expiry months.

TRADING VOLUME LONDON RECENT ISSUES: EQUITIES issue Amt Mkt. Net Div, Grs P/E div. cov. yld net 102<sup>1</sup>4, 100<sup>1</sup>2 Asset Mn Zero Dv 30<sup>1</sup>2, 30<sup>1</sup>5 BG '8' 17<sup>1</sup>2, 16<sup>1</sup>2 | Buckland Inv 12 & | Buckland Inv Wrt FP. 0.06 12 8
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FTSE GOLD MINES INDEX Year Green the P/E ago yield % ratio Row % calog Oct 3 on day 31 1250.75 +0.7 1241.89 1873.42 1261.46 +1.1 1247.16 2475.26 5.92 1232.48 +0.6 1224.85 2863.53 3.20 21.99 2502.51 1192.32 14.76 2217.60 1135 38 47.01 1839.77 1227.49 1264.94 +0.6 1257.21 1679.58 1.06

Gold Mines Index (33) m Regional Judices Addica (15) Auglestesia (8) Copyrights, FTSE Interhesional Limited 1897. At rights reserved. Figures in brackets show number of completes, Basis US Dobris. Base Value; 1000.00 31/12/92. ? Partial Listest pricest seems unseemblish for the edition. National Power added 6 at



WWF World Wide Fund For Nature (formerly World Wildlafe Fand)

FTSE Actuaries S Produced in conjunction				enseithean	of Ac	untina		1	e U	K.5	erie
. Tredeset in odigineren	24 45 1014	Day's			Year	Groes	Net	Net	P/E	Xd adl.	Total
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FTSE 250	4674.8		4663.6	4643.2			2.92	1.76		130.53	1971.
FTSE 250 ex IT FTSE 350	4705.4 2366.1		4692.7 2368.4	4674.3 2341.5			2.75	1.82	18.68	63.65	1990.
FTSE 350 ex IT	2368.6		2371.0	2344.0		3.37	277	2.02	18.33	31.65	1088
FTSE 350 Higher Yield	2353.6		2343.2	2317.1	1867.3		3.58	1,82	15.87	76.78	1759.
FTSE 350 Lower Yield	2390.B		2404.2	2376.5			2.04	2.28	21.68	48.89	1735.
FTSE SmallCap	2321.70		2320.24	2312.25			2.56	1,51	24.41	57,54	1989,
FTSE SmallCap ex IT FTSE All-Share	2327.09 2316.92		2326.14	2322.A1 2293.87			2.74	1.68 1.96	21.93 18.85	62.11 61.69	2012. 2067.
FTSE All-Share ex IT	2320.67	-0.1	2322.86	2297.75		3.37	277	2.00	18.51	31.18	1065
FTSE Actuaries In	dustry	_								•	
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40 4	Nov 4	chge%	Nov 3	Oct 31	BGO OF	yleki%	yleid%	cover	ratio	ytd	Petu
10 MINISTAL EXTRACTION(20) 12 Extractive industries(5)	4704,39 3243,02		4736.20 3233.69	4648.17 3170.33	3709.08 4125.40		3.08	1,82		128.19	2123.° 999.5
15 Ot, Integrated(3)	5150.89		5199,45	5090.44		3.38	2.78	1.78		137.84	
18 Oil Exploration & Prod(12)	3794.94		3773.94	3774.93			1,24	2.92	35.75	52.61	2334.
20 GEN INDUSTRIALS(258)	2053.B4	+0.3	2048,80	2029.36	2019.05	3.82	3.27	1.95	15.79	62.85	1185.
21 Building & Construction(85)	1378.42		1378.45	1372.96		3.31	2.57	2.30	16.40	40.05	1212
22 Building Matis & Morchs(30)	1819.25		1837,81 2483,45	1819,19			3.57	1.89	15.17	59.69	970.9
23 Chemicale(26) 24 Diversified Industriale(13)	2498.58 1388.27	+0.6	1359.94	2457.38			3.39 4.61	1,84 2,63	16.79 9.70	79.83 65.67	1253.3 839.7
25 Electronic & Elect Equip(35)	2220,80	+0.6	2202.97	2181.31	2317.57	8.97	3.21	1.55	20.31	55.53	1211.
26 Engineering(65)	2811.78		2807. <b>2</b> 7	2782.98		3.01	2.51	2.45	16.05	87.54	1784
27 Engineering, Vehiclas(13)	3509.43	+0.2	3503,32	3485.99			221		‡	76.02	1902
28 Paper, Polig & Printing(27) 29 Textiles & Apperv(14)	2243.74 1064.21	+0.2	2238,72 1052,77	2233.91	2585.67 1153.68	4.82 6.32	3.79 5.24	1.97 1.17	13.72 16.85	80.74 48.24	990.9 704.7
30 CONSUMER GOODS@S	4564.67	+0.6	4539.25	4514.86			2.81	1.87			1778
\$2 Alcoholic Beverages(7)	3186.53	+0.2	3180.05	\$118.72			3.36	2.02		101.52	1220.
33 Food Producers(25)	3079.29	+0.2	3073.86	3046.08			2.87	1.68	17.92	83.08	1486.
34 Household Goods(17)	2972.29	+0.1	2968.95	3029.57			2.93	2.48	14.99	88,74	1235.4
36 Health Care(14) 37 Phyrmacounicale(19)	2258.88 7386.90	+0.8	2241.54 7333.35	2234.99 7337.88		2.39	1.88 2.12	1.78 1.50	30.80 28.98	52,46 171,99	7428. 2616.
38 Tobecco(3)	4444.59	+1.0	4402.52	4332.54		6.34	5.60	1.68		240.05	1208
40 SERVICES(274)	2802.29		2201,91	2783.48	2560.45	2.92	2.35	2.04	21.01	63.26	1521.
41 Distributors(29)	2678.20	_	2676,67	2673.98			2.88	2.00	17.88	75.62	1035
42 Leisure & Hotels(30) 43 Martin(43)	3271.78	+0.2	3204.57 4075.96	\$187.45			2.83	1.99	21.82	<b>86.03</b>	1782
43 Media(43) 44 Retailers, Food(15)	4085.35 2655.19	+0.3	2647.02	4072.31 2648.30	4258.98 1999.98		2.06 2.54	1.93 2.28	25.92 17.30	90.80 80.87	1529.
45 Fistallers, General(53)	2318.97	-0.2	2323,91	2308.19	2074.51	3.12	2.50	2.15	18.57	58.61	1391.
47 Brewertes, Pubs & Rest.(22)	3231.34	-1.0	3262.53	3217.97	3167,93	3.51	2.81	2.29	15.52	63.69	1816,
48 Support Services(58)	3356.00	+0.9 -0.5	3326.50	3269.91	2600.21	1.83	1.49	2.43	28.18	41.48	2196
49 Transport(23)	2959.27	-44.2	2973.54	2940.69	2538.98	3.40	274	1.40	26.22	75.06	1298.
66 UTILITIES(\$2) 62 Electricity(\$)	31 <u>62.2</u> 7 3439.61	+0.8	3163,73 3418,80	3149,13 3414,26	2361.84	4.79 5.16	3.35 4.13	1.56	19.06	81.97	1475.
64 Gas Distribution(2)	2354.31	-0.5	2365.04	2326.56			2.21	±	2.05	116.63 81.42	1957,: 1948,
88 Telecommunications(8)	2465.52	-0.1	2465.90	2440.16	2043,41	3.58	2.86	1.52	22.96	44,68	1186.
68 Wester(12)	3024.83	-0.8	3049,37	3048.18	2131.26	5.65	4,44	2.23	10.11	90.96	1811.
BE NON-FENANCIALS(000)	2351.17	+0.1	2349.35	2328.88	2022.54	3.30	2.80	1.87	19,70	62.10	1884.2
70 FRANCIALS(105)	4472.27	0.5	4500.28	4422.50		3.31	2.67	2.42			2036.
71 Banks, Retel(11) 73 Insurance(17)	6585.14 2036.12	-1.2 -0.3	8872.44 2042.52	6530.22 2002.38	4698.15 1548.34	3.18 4.33	2.54	2.54		186.05	2275.
74 Life Assurance(3)	5284.25	+1.6	5200.85	5172.85		3.46	3.57 2.64	2.86 2.26	10,09	83.95 162.17	1652.0
77 Other Financial(27)	3327.39	-0.1	3331.88	3313.62		3.24	2.63	2.04	18.91	82.15	1995.
79 Property(42)	2176.52	-0.4	2185.90	2164,72	1646.92	3.04	2.43	1.34		42.03	1405.
80 SAVESTMENT TRUSTS(126)	3358.11	+0.1	3355.A7	3916.98	3118.71	. 227	1.82	1.16	47.57	\$6.56	1209.
86 F73E AS-Share(800)	2316.92	-0.1			1934.20		2.74	1.98	-	61.98	2067
105 FTSE All-State ex IT(774)	2320.57		2322.86			3.37	2.77	2.00	18.51		1085
FTSE Fledging	1271.28	+0.3	1287.68	1261.68	1222.05	3.23	2.59	1.27		33.90	1398.0
FTSE Fledgling ex IT	1288.74				1236.31		2.84	1.31		35.56	1411
FISE AM	991.5	+0.2	989.4	986.6	-	1.11	0.88	0.88	100.08	6.71	911,4
<b>E</b> Hourly movements	•										
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FTSE 250 - 467	00 4877										4
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### World Stock Markets

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FT/S&P ACTUARIES WORLD INDICES The FT/S&P Actuaries Work
Standard & Poor's in confus
NATIONAL AND
REGRONAL MARKETS
Figures in performances
show number of lines
of stock
Australie (78)
Australie (24)
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Brazil (30) Gross Div. Yield Local % criss of the criss of t Day'o Change % D3M index

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Japan (484)
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South Africa (43)
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FINANCIAL TIMES

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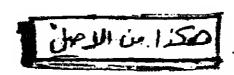
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FINANCIAL TIMES WEDNESDAY NOVEMBER 5 1997 *	33
	EQUITY MARKETS
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UBBDES 265.25 342.59 241.35 248.55 209.47 254.65 16.55 207.10 (271) (271	Tuesday   Stacks   Close   Day's   Tuesday   Close   Day's   Day's   Day's   Tuesday   Close   Day's
Composite   238,99   814,82   933,68   963,12   737,91   963,12   4.49   737,91   737,91   739,91	Married Hey   April 100   570   -21   1994   1997   1997   1994   1997
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RATIOS	September   665,934   108,55   -1.1   Ups   Model   76.0   +5.2   +1.3   Localitarity   10,815,810   2094   +1s   Venteron   37   +61s   +22.3   +6.8   BT   10,773,510   458   +21*   Ci Similary   171*   +23   +70.3   +15*   +10.3   +15*   +10.3   +10.
INDEX FUTURES	
Open Latest Change High Low Est. vol. Open int. CAG-40 (200 x Indian)	■ ONDX
Dec 922.00 945.70 +21.70 946.00 921.10 62.329 182.508 Nov 2778.0 2777.0 948.00 955.50 943.00 432 6.503 Dec 2783.0 2783.0 2783.5 Hillideal 228 Open Sett price Change High Low Set. vol. Open int. B DAX  Dec 16140.0 18460.0 - 16510.0 16050.0 28.425 174.967 Dec 3880.0 3783.0 Mar 16150.0 16530.0 - 16580.0 16110.0 48 9,607 Mar 3895.0 3827.5 Open interest figures for previous day.	-17.5 2798.0 2778.5 2,264 17,552 Dec 2379.00 2382.00 - 2382.00 2379.00 30 1,882 34 SOFFEX -77.0 3889.0 3787.5 23,021 76,266 Nov 5550.0 5542.0 -53.0 5593.0 5538.0 4,578 26,210
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Safe Singapore

EMERGING MARKET FOCUS

### Calm returns, but worst may not be over

WORLD OVERVIEW

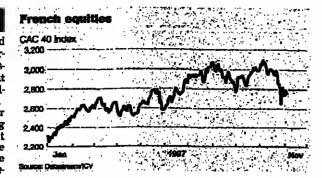
An air of normality started to return to world stock markets yesterday as the massive swings seen in recent weeks appeared to be dissipating. urites Philip Coggan. Apart from another 4 per

cent plus decline in Hong Kong and a 6.9 per cent rebound in Thailand on the back of the change in prime minister most index movements were modest. After the phenomenal 232

point rise in the Dow Jones Industrial Average on Monday, there was bound to be a reaction yesterday and, sure enough, the Dow opened

Dow steady

as investors



limited, especially by recent standards, and did littla to upset sentiment in Europe. There was some comment

from Otmar Issing, Bundesbank chief economist, about the need to lay the foundations for an inflation-free monetary union. But few economists sxpect German interest rates to rise before the end of the year. The DAX slipped 1.6 per dollar, but in Paris, the CAC 40 dropped by less than 0.5 per cent, with the lorry drivers' dispute so far having little effect on the economy.

It may be too early to say that investors have seen the worst of the market setback. The next big test for sentiment is likely to come from tha US non-farm payroll figures, which will be published on Friday.

Michael Hughes, BZW group economic adviser, said: "In economic terms. the worst is not over in Asia. The exchange rate peg is still inappropriate for Hong Kong, the banking problems in Thailand and Indonesia

weighed down by a weaker have not gone away and more defensive, as the risks you're seeing the impact of the pressure on the financial sector in Japan."

What had changed, said Mr Hughes, was that "the gap between the valuation of equities and bonds in the Western markats, which opened up during the summer, has now closed again. That makes it a correction. rather than a bear market."

The European team at Goldman Sachs has used the market setback to change the structure of its recommendsd portfolios. "We believe European equity domestic, as the risks are

to the market are from earnings disappointment and visibility of earnings is a major protection; and more bond sensitive as the risks of higher bond yields hava diminished."

"Our response," adds Goldman, "is to increase recommended weights in financial services and utilities and to reduce weights in energy, capital goods and basic industries "

In country terms, Goldman has reduced weights in Germany and Scandinavia and increased weights in the UK, Belgium and France.

## Bourses ease in subdued trade

### sit tight

#### AMERICAS

US stocks edged lower in choppy morning trading, pushing the main stock indices into reverse after Monday's explosive 232 points rally, writes John Labate in New York.

However, the selling pressure was said to be decidedly mixed. "There's s sorting out process going on, with investors looking at each sector and picking stocks within them," said Joseph Battipaglia, chief investment strategist of Gruntal & Co.

sector provided a case in ny's online book service. point with Newbridge Networks plunging more than 14 per cent or \$8 to \$4913 after a profits warning. The sell-off spread to most other bypassed industry leader Cisco, which traded \$1/4 1/4 at \$134. higher at \$85.

Dow Jones Industrial Average was off 8.84 at 7,665.55. Poor's 500 index was down less than one point at 938.27.

Major cyclical stocks were mixed as Ailled Signal gained \$1% at \$37% after the company announced the sale of one of its units for \$710m. But DuPont chares sank \$25 to \$571 after the group announced the appointment for the exits. At the close of of its new chief financial morning trading, they were officer.

rienced a recovery in confidence relativs to a week ago, for US fundamentals," said A. Marshall Acuff of Smith

traded lower as traders

to advance after Monday's

near 10 per cent gains, but

most leading markets across

Latin America gave ground

MEXICO CITY saw modest

profit-taking after a two-day

retreated 28.18 to 4,821.50 at

SANTIAGO moved lower

in early trading as investors

October inflation figures.

vesterday morning.

bills and notes to be auctioned this week

Banking stocks were modestly lower, drifting down after Monday's buying spree. Some sectors continued to weaken. Paper producers, which share a high exposure to overseas markats, were mostly lower. International Paper lost \$1 at \$47 h. Weyerhaeuser came off \$1% to \$49 in spite of an upgrade to "strong buy" by a Salomon

**Booksellers Borders Group** surged nearly 11 per cent to \$28% after announcing a The computer networking launch date for the compa-

Technology shares were mixed. The Nasdaq composite index eased by less than one point at 1,629.01. Chip maker Texas Instruments networking stocks but gained \$4% at \$119% while software leader Microsoft fell TORONTO moved lower as

By early afternoon the dealers concentrated on a severe shake-out for Newbridge Networks following a The broader Standard & profits warning from the software leader. The 300 composite indax was off 21.03 at 6,924.80 at noon. Newbridge's announce-

ment that second-quarter earnings to date were disappointing came as a bombshell. The shares fell headlong as investors stampeded trailing hy C\$11.75 at

Power group Enersis fell 7

pesos to 268 pesos and paper group CMPC gave up 40

pesos to 4,210 pesos. The IPSA Index was off 1.15 at

SAO PAULO picked up

where it left off on Monday.

But volume was said to

have tailed away and much

orders from the previous

At midsession, the Bov-

118.24 at midsession.

1.4 per cent at 9.993.

rally and the IPC indsx climbing steadily higher.

Dealers said volume was of the early momentum was thin. Telmex lost 10 centavos credited to wash-over buy

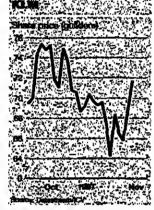
waited for news of the espa index was ahead 135 or

#### By recent standards, bourse took the day off yesterday PARIS traded narrowly a the lorry drivers' strike entered its third day. Vol ume was unexciting at 11.2n shares and the CAC 40 inde

bounce always looked sus pect and the lack of follow through came as no surprise There is a feeling that matters are already starting to go on hold ahead of Friday's US employment data," said

Motors and retailers were at the forefront of haulage strike concerns. One theory in the market was that anto inventories could quickly be depleted. Renault slipped FFr2.40 to FFr2,278 and Peugeot FFr9.00 to FFr668. Trading among retailers

was mixed. Promodes came off FFr17.00 at FFr1,863 but supermarkets leader Carre-



up the price the government will seek for its stake. SGS Thompson gained FFr12.00 to FFr441 on news of collaboration with UK satellite TV

FRANKFURT fell following Monday's rises, as investors reacted to a weak dollar and an uncertain opening on Wall Street. The Ibis-indicated DAX index fell 62.93 to close at 3,784.8 during moderate trading.

Making the corporate

news was Adidas, the sportswaar company, which unveilad third-quartar results ahead of market suffered from their exposure expectations. Profits for the to Asian demand. Nedlloyd. third quarter rose 64 per came off F13.00 or 5.2 per

cent to DM307m, a record amount for the company. But the share price was subdued following the sale of 1m shares by Robert Louis-Dreyfus, chief executive, and another director. Adidas closed at DM249.0, up DM0.2 on the day.

Elsawhere, steelmakers Thyssen and Krupp confirmed recent market speculation when they announced of the alliance will be finalised by the end of November. Thyssen closed up 50 pfennies at DM411.0 while Krupp built on Monday's rise to move to DM374.0, up DM23.8. ZURICH followed the rest

of Europe by recording a small drop as the SMI index fell 43.4 to close at 5,538. Banks were the centre of attention. UBS rose SFr30 to SFr1,675 following market rumours about an imminent big announcement. UBS also accounted for a third of yssterday's Swiss options market volume.

The CS Group was under

SFr12.560 AMSTERDAM witnessed a

soaraway performance at KLM but otherwise plodded steadily lower. The AEX index closed down 13.82 at 868.95 in dull volume. Amid widespread talk of

broker npgrades, KLM immed Fl 2.90 or 4.2 per cent to F171.80 following betterthan-expected eix-month results from the airline. Goldman Sachs, which has had the shares as a "buy" for some time, lifted its target Nedlloyd and Hagemeyer

CONOPE	Alexander of the second	ando on s	STATE OF THE PARTY	C. Carrie		Cit = CV = 5	the plant con-				
By recent standards, bourses took the day off yesterday. PARIS traded narrowly as	November 4 Hational & Regional Markets	Ecu Lades	Day's	change points	Yield grass %	ni adj	Total rein (Scu)				
the lorry drivers' strika entered its third day. Vol-	FTSE Eurotop 300 FTSE Eurotop 100	916.95 2138.08	-0.98 -0.83	-9.08 17.81	2.41	8.00	921.43				
ume was unexciting at 11.2m shares and the CAC 40 index ended off 13.06 at 2,774.90 having traded within a range	FISE Eurotop 200 Ma 300 UK 300 Ex-UK 300 Eurotico 300 Ex-Eurotico	925.98 911,82 896.81 930.69	-0.98 -0.99 1.08 0.91	-9.02 -9.06 -9.77 -5.56	3.30 1.89 2.12 2.51	0.00 0.00 0.00	935.82 913.86 901.81 936.27				
of just 30 points. "Wall Street's overnight	FTSE Eurotop 300 Eco Resources	948.52	-1.26	12.02	2.89	0.00	952.05				
bounce always looked sus- pect and the lack of follow	General Industries Consumer Goods Services	902.32 896.99 942.31	-0.90 -0.70 -0.97	-8.22 -6.26 -4.29	2.17 2.01 2.32	8700 8700 8700	903.81 900.53 946.87				
through came as no surprise.	Utilities Financials	923.94 917.61	-0.82 1.24	-5.80 -11.54	3.18	0.00	929-22 922-09				

meyer, which carried out a placing earlier this year at FI 106 a share, lost Fl 2.60 to MILAN fell victim to prof-

> selling after Monday's gains. The Mibtel index fell 93 to 14.996 although trading was Marzotto, tha textile manufacturer, bucked this trend

it-taking as investors started

to risa L883, closing at L19,710 after reporting better-than-expected thirdquarter figures as profits grew by 19.6 per cent. MILAN saw choppy trading in power group Endesa

which ended 1.3 per cent lower at Pta2,690. The broad market experienced limited volume and at the close of trading the general index gain at R220.

was up a bare 0.49 at

Selected blue chips came

above 1,600 as the drachma stabilised and local money market rates eased. The gen eral index gained 72.68 or 4.7 per cent to 1,541.10 in heavy turnover of Dr34.5bn.

upbeat mood, rallying 126 or 4.4 per cent to 2,972 on the IMK-National index. Trading volume was almost 9 per cent higher than on Monday.

Written and edited by Jeffrey and James Montgomery.

ning. The all-share index ended 19.8 ahead at 6,749.7.

8,320.4 and the golds index, which spent much of the day in negativa territory, finished 1.8 higher at 896.8. Among blue chips, Anglo American recovered from a low of R212 to end with a R2

in for buying. Talefonica gained almost 1 per cent to Pta4,070 and Argentraia put on 1.6 per cent at Pta8,490. Iberdrola gained 1.4 per cent to Ptal,775. ATHENS climbed back

ISTANBUL was also in

#### **SOUTH AFRICA**

from the futures market sent Johannesburg higher for tha third session run-Industrials rose 32.7 to

Now, however, as financial turmoll grips the region, prudence is once again a virtue. But there are more facets to Singapore'a attractiveness than its relative safety. The city state is experiencing a healthy export recovery and there are even aigns that south-east Asia's crisis could play to its advantage.

been a safe haven for

south-east Asian investors.

During the recant bull

market, the city state's

reputation for staid conven-

tionality was sometimes

alienating; many Singapo-

reans preferred to punt

elsewhere - especially in

Malaysia and Indonesia.

Exports, which drive the economy, have benefited from a surge in US demand for electronics over the past few months. By volume, Singapore'e exports climbed 10.9 per cent in the third quarter of this year from a year earlier. This compared with growth of 6.5 per cent in the second quarter and a contraction of 0.6 per cent in the first

"As long as US growth remains strong, the export pick up should drive manufacturing growth, which is crucial to the economy, said Neil Saker, regional aconomist at SocGen-Crosby in Singapore.

Peseimists, howaver, make the point that Singapore is too vulnerable to tha slowdown in growth among its south-east Asian neighbours to warrant confidence. To an extent, this national in Singapore. Singapore's port and air-

port, important engines of growth, rely heavily on regional traffic. Its flagging retail sector has already been hit by a decline in shoppers from Indonesia, Malaysia and Thailand. Segments of its property market, such as sales of luxury condominlums, have in the past been boosted by Indonesian

back in favour Singapore has for years

> Three of its "big four" banks have a loan exposure to Malaysia of at least 15 per cent, and the one bank not exposed to Malaysia. the Development Bank of Singapore, has been active in US dollar lending offshore - another area considered particularly risky.

1020 OF

grement

mick straker

a french

But most analysts say that, while Singapore is not immune from the region's problems, it is unlikely to be as hard hit as its neighbours. Singapore has a strong current account surplus, relatively low interest rates, low inflation and its currency has depreclated

much less than those of the countries around lt. All this, in a sense defines a rare opportunity for Singaporean companies

seeking to expand abroad. "Most of the south-east Asian countries are going to be capital hungry. Singapore is the only country in the region which is a capital exporter," said Rajeev Malik, senior sconomist with Jardine Fleming Inter-

It will take some time for the fruits of any such regionalisation to be realised, but Singapore does have more immediate attractions. The average forward price/earnings ratio of 13.8 stands at a 27 per cent discount to its five

James Kynge

#### FFr3.124. Talk of petrol Newcourt Credit provided paper reports suggested that some relief, rising C\$4.05 to rationing left Total FFr18.00 its investment banking arm, C\$53.80 on news of merger or 2.8 per cent lower at CS First Boston, was the sola **ASIAMANAGERS** talks with AT&T Capital remaining bidder for BZW. It Corporation, but the broad GAN hardened FFr1.30 to closed down SFr2 at market moved steadily lower FFr122.8 after a French press Drugs headed the activity report revived interest the throughout the early insurer pending privatisa-tion. A long line of suitors charts. Novartis gained focused on a new supply of session SFr31.00 to SFr2,185 while was said to be ready to drive Roche came off SFr60.00 at Mexico City falls back

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## Futures raid hits Hong Kong

#### ASIA PACIFIC A wobble for the Hong Kong dollar coupled with futuresled selling sent HONG

KONG steeply lower in late trading. The Hang Seng index, which was more than 400 points higher at one stage following Wall Street's strong overnight gains.

ended off 474.33 or 4.2 per

China etocks also fell. The

red-chip index shed 6.6 per

cent at 10,780.78.

cent to partly reverse the 22 per cent gains of the previous two sessions. The H shares index lost 5.9 per Nikkel 300 index rose 0.69 Among leading stocks. HSBC fell HK\$2.00 to gained 0.5 per cent, but that HK\$183.50 and Sun Hung Kai

HK\$2.25 to HK\$58.25. HK

Telecom declined HK\$1.30 to huoyed hy Wall Street's ruptcy of Sanyo Securities, a strong performance on Mon- second tier company. Sanday, but then fell back on concerns about the impact of at Y54, compared with Fri-Sanyo Securities' bank- day's close of Y84. In April ruptcy. writes Paul Abrahams. The Nikkei 225 index ended 41.16 higher at of more than Y2.700. 16.500.10 after a session high

CHANGES ON THE DAY

Hong Kong . Kuala Lumpur Tokyo ......... Wellington ...

cautious, with turnover low at 341m shares. The broaderbased Topix index added 0.46 per cent to 1,282, while the per cent to 249.78.

The securities aector masked highly varied performances. Shares in the big four houses were all up, but those of smaller brokers fell TOKYO was initially sharply following the bankyo's shares were "ask-only" the shares stood at Y510 and compared with a 1987 peak

Other small brokers pulled lower included National the prime minister, Chavalit The mood was generally Securities off Y15 at Y110, Yongchaiyudh, whose coali-

% change

drop in October domestic car sales after market hours, but the shares were off Y16 at Y512. Nissan, Toyota and Honda were all up despite an overall 13 per cent drop in Japanese automotive sales last month. Drugs leader Sankyo fell 6.8 per cent to Y3,700 after US healthcare Warner-Lambert warned one of its diabetes

17.06m shares.

Y292, Yamatane Securities down Y9 at Y99 and Dei-Ichi Securities down Y7 at Y109. Motors Mitsubishi announced a 36 per cent

drugs could cause liver In Osaka, the OSE index rose 47 to 17,470 in volume of

WELLINGTON jumped 79.82 or 3.3 per cent to 2.470.02 on the 40 capital index. Brokers said Wall Street's overnight gains were the main driving force rather than election speculation following the resignation of the prime minister Jim Bolger. NZ Telecom rose 47 cents to NZ\$8.55 on turnover of NZ\$10.7m.

BANGKOK reacted posl-

tively to the resignation of

economic problems. The baht's strong performance also encouraged investors as the SET index moved up 30.89 or 6.9 per cent to 478.33. The main beneficiary was the banking sector, which rose by almost 6 per cent. JAKARTA ended a volatile day down as foreign inves-

tors failed to match local enthusiasm for the IMF-led reform package. The composite index closed down 6.87 or 1.4 per cent at 494.85 after a session high of 506.03. Brokers said the late decline was lad by foreign sellers reacting to the falls in Hong

SEOUL had its third straight rising session as investors began to believe that the recent rally could be snstained. The composits index rose 30.47 or 5.9 per cent to 542.13. Positivs sentiment was helped by indications of continued government support for the

biggest gainers, with both Samsung Electronics and LG Semicon going limit-up at 47.600 won and 19.800 won

Blue-chip stocks were the